ORDER NO. APD9402065

Service Manual

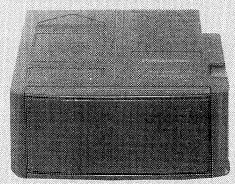
AUTO PRODUCTS

COMPACT disc DIGITAL AUDIO

CX-DP1200EN

12-Disc CD Changer / 12-Disc CD-Wechsler

< CD Changer Unit >



< Magazine Unit >

MASH is a trademark of NTT
MASH ist ein Warenzeichen von NTT.

SPECIFICATIONS*

< General >

Power Supply	: 12V DC (11V~16V), Test Voltage 14.4V, Negative Ground
Current Consumption	: Less than 1.0A (play mode)
Output Voltage	: 2V rms (1kHz, 0dB)
Output Impedance	: 600 ohms
Load Impedance	: More than 10 k ohms

< CD Changer Unit >

Channel	: 2 channels
Frequency Response	: 5~20,000Hz (at ± 1dB)
Signal to Noise Ratio	: 96 dB
Total Harmonic Distortion	: 0.008% (at 1kHz)
Wow and Flutter	: Below measurable limit
Sampling Frequency	: 32 times oversampling
Correct System	: Panasonic Super Decoding Algorithm
DA Converter	: MASH. 1 bit
Pick-Up Type	: Astigma 3-beam
Light Source	: Semiconductor laser
Wavelength	: 780nm
Dimensions**	: CD Changer Unit (W×H×D) 299×105×170mm Magazine Unit (W×H×D) 130×52×134mm
Weight**	: CD Changer Unit ; 2.5Kg Disc Magazine Unit ; 0.2Kg
Disc Magazine Unit	: CA-MP1200D (included) holds 12 (12cm) discs

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

TECHNISCHE DATEN*

< Allgemeines >

Stromversorgung	: 12V (11V~16V), Gleichstrom, Testpannung 14,4V, negative Erdung
Leistungsaufnahme	: Weniger als 1,0A (Wiedergabe-Betriebsart)
Ausgangsspannung	2V effekt. (1kHz, 0dB)
Ausgangsimpedededanz	: 600 Ω
Belastungsimipedanz	: Über 10 kΩ

< CD-Wechsler >

Kanal	: 2 Kanäle
Frequenzgang	: 5-20.000Hz (bei ± 1dB)
Signal /Rauschabstand	: 96 dB
Gesamtklirrfactor	: 0,008% (bei 1kHz)
Gleichlaufschwankungen	: Nicht meßbar
Abtastfrequenz	: 32-fach Oversampling
Korrektursystem	: Panasonic Super Decoding Algorithm
DA-Konverter	: MASH. 1 Bit
Abtastertyp	: Astigma 3-Strahl
Lichtquelle	: Halbleiter-Laser
Wellenlänge	: 780nm
Abmessungen**	: CD-Wechsler (B×H×T) 299×105×170mm CD-Magazin (B×H×T) 130×52×134mm
Gewicht**	: CD-Wechsler ; 2,5Kg CD-Magazin ; 0,2Kg
CD-Magazin	: CA-MP1200D (mitgeliefert) kann 12 stück 12cm-Discs aufnehmen.

* Bei Konstruktion und technischen Daten Änderungen vorbehalten.

** Abmessungen und Gewicht in angenäherten Werten angegeben.

Panasonic

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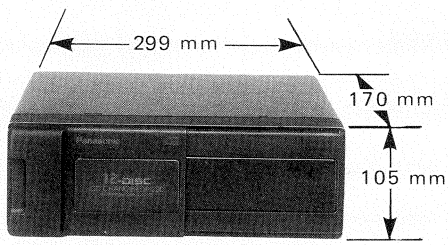
FEATURES

- 12-slots disc magazine.
- Horizontal or Vertical mounting.

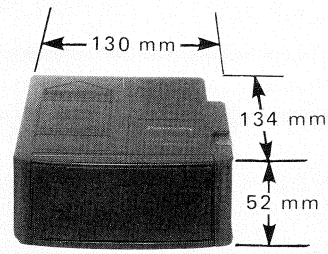
MERKMALE

- Disc-Magazin mit 12 Schächten.
- Horizontaler oder Vertikaler Einbau.

DIMENSIONS / ABMESSUNGEN



< CD Changer Unit >



< Magazine Unit >

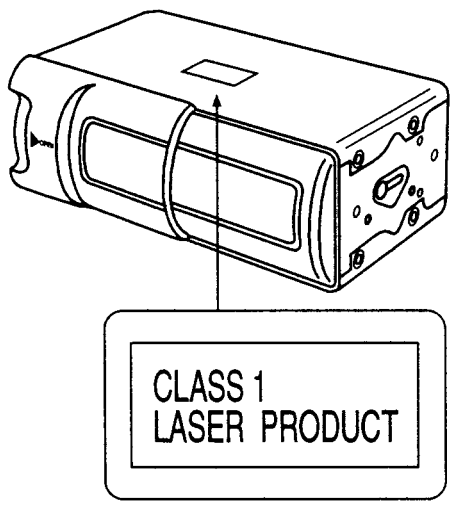
LASER PRODUCTS

Caution:
This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

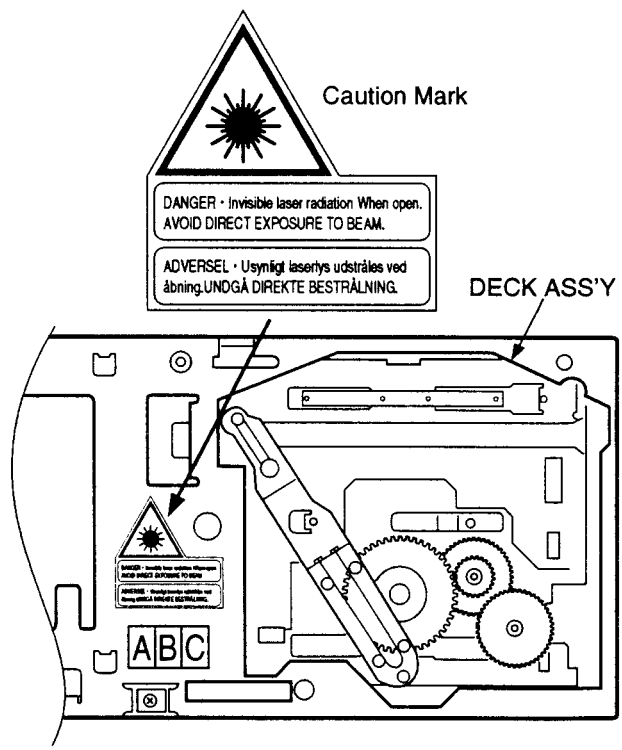
Laser products:
Wave Length 780 nm
Laser Power No hazardous radiation is emitted with safety protection.

Do not take apart this unit or attempt to make any changes yourself.
This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet.
Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

LABEL INDICATIONS AND THEIR LOCATIONS



(Located on the top cover.)


Caution Mark
DANGER · Invisible laser radiation When open.
AVOID DIRECT EXPOSURE TO BEAM.
ADVERSEL · Usynligt laserlys udstråles ved
åbning.UNDGÅ DIREKTE BESTRÅLNING.
DECK ASS'Y
A B C

VORSICHT!	UNSIHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.
A) ADVERSEL!	Usynlig laserstråling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen.
B) VARNING!	Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
C) VARO!	Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

LASER ERZEUGNISSE

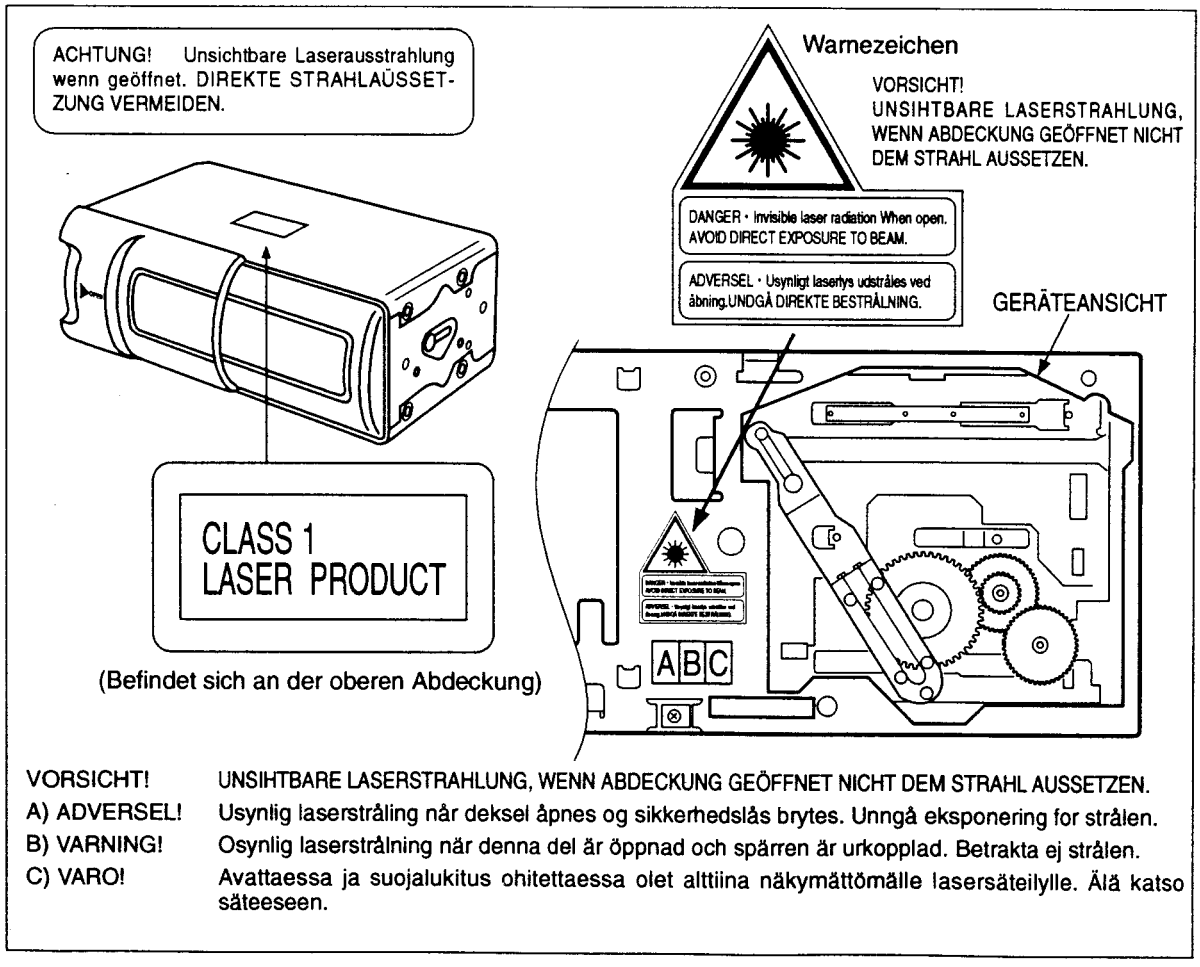
Vorsicht:
Dieses Gerät arbeitet mit Laserstrahl.
Benutzung der Bedienungselemente oder Veränderungen oder Betriebsweise anders als hierin beschrieben, kann zu gefährlicher Strahlenaussetzung führen.

Laser-Erzeugnisse:

Wellenlänge	780 nm
Laser Energie	Mit Sicherheitsschutz entweicht keine gefährliche Strahlung.

Öffen Sie dieses Gerät nicht, und versuchen Sie unter keinen Umständen, am Gerät herumzubasteln.
Dieses Gerät ist ein sehr kompliziertes Instrument, welches einen Laserstrahl benutzt,um die auf der Oberfläche der Disc gespeicherten abzulesen. Der Laserstrahl ist sorgfältig abgeschirmt, so daß die Strahlung innerhalb des Gerätes verbleibt.
Aus diesem Grunde öffnen Sie das Gerät auf keinen Fall, und versuchen Sie unter keinen Umständen Geräteteile zu verändern. Sie können sich unter Umständen gefährlicher Strahlung und Stromspannung aussetzen.

WARNETIKETTEN UND DEREN ANBRINGUNGSORT


ACHTUNG! Unsichtbare Laserausstrahlung wenn geöffnet. DIREKTE STRAHLAÜSSETZUNG VERMEIDEN.
Warnezeichen
VORSICHT!
UNSIHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.
DANGER - Invisible laser radiation When open. AVOID DIRECT EXPOSURE TO BEAM.
ADVERSEL - Usynligt laserlys udstråles ved åbning.UNDGÅ DIRETE BESTRÅLNING.
GERÄTEANSICHT
CLASS 1
LASER PRODUCT
(Befindet sich an der oberen Abdeckung)
A B C

VORSICHT!	UNSIHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.
A) ADVERSEL!	Usynlig laserstråling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen.
B) VARNING!	Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
C) VARO!	Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

WARNING!
Lithium batteries. Explosion danger.
Change of batteries must only be done by qualified personnel and as described in the service manual. Furthermore, that the batteries must only be changed with batteries of the same manufacture and type.

WARNUNG!
Lithium-Batterien. Explosionsgefahr.
Die Batterien dürfen nur von qualifiziertem Personal und gemäßí Beschreibung in der Wartungsanleitung ausgetauscht werden. Die Batterien dürfen nur durch Batterien des gleichen Herstellers und Typs ersetzt werden.

AVERTISSEMENT!
Piles au lithium. Danger d'explosion.
Le changement des piles doit être effectué seulement par un personnel qualifié et conformément au manuel d'entretien. Les piles ne doivent être remplacées que par celles des mêmes fabricant et type.

Waarschuwing!
Lithium batterij. explosie gevaar.
Vervanging de batterijen mag alleen plaatsvinden door gekwalificeerd personeel en volgens de omschrijving in de service manual. De batterijen mogen alleen vervangen worden door batterijen van hetzelfde fabrikaat en type.

VARNING!
Lithium batterier. Explosionsfara.
Felaktigt batteribyte kan medföra fara för explosion.Använd därför endast samma typ eller likvärdig typ enligt apparattillverkarens rekommendation. Kassera förbrukade batterier enligt tillverkarens anvisning.

ATTENZIONE!
Pile al litio. Pericolo di esplosione.
La sostituzione delle pile deve essere operata soltanto da personale qualificato e nel modo descritto nel manuale di servizio. Le pile devono inoltre essere sostituite esclusivamente con altre dello stesso tipo e marca.

AVISO!
Baterías de litio. Peligro de explosión.
El cambio de las baterías se debe llevar a cabo sólo por personal debidamente calificado y como se describe en el manual de servicio. Además, las baterías se deben cambiar sólo por productos de la misma maroa y tipo.

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

ADVARSEL!
Lithiumbatteri-Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VAROITUS!
Paristo voi räjähtää,jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

BACKUP BATTERY REPLACEMENT / SYSTEM RESET PROCEDURE
AUSWECHSELN DER STÜTZBATTERIE / SYSTEMRÜCKSTELLVERFAHREN

(1) Remove the solder from the section "A" shown in Fig. 1.
(2) Replace the backup battery (CR2032-1HF1).
(3) Connect the CD changer controller, turn the power switch on, and press the changer reset switch.
(4) Solder the section "A" of Fig. 1 with the power switched on.
(5) Switch off the power and remove the CD changer controller.

(1) Das Lötmittel von dem in Abb.1 gezeigten Abschnitt "A" entfernen.
(2) Die Stützbatterie (CR2032-1HF1) auswechseln.
(3) Die CD-Wechsler-Steuereinheit anschließn, den Ein/Aus-Schalter einschalten und den CD-Wechsler-Rückstellschalter drücken.
(4) Den Abschnitt "A" der Abb. 1 bei eingeschalteter Stromversorgung löten.
(5) Die Stromversorgung ausschalten, und die CD-Wechsler-Steuereinheit abtrennen.

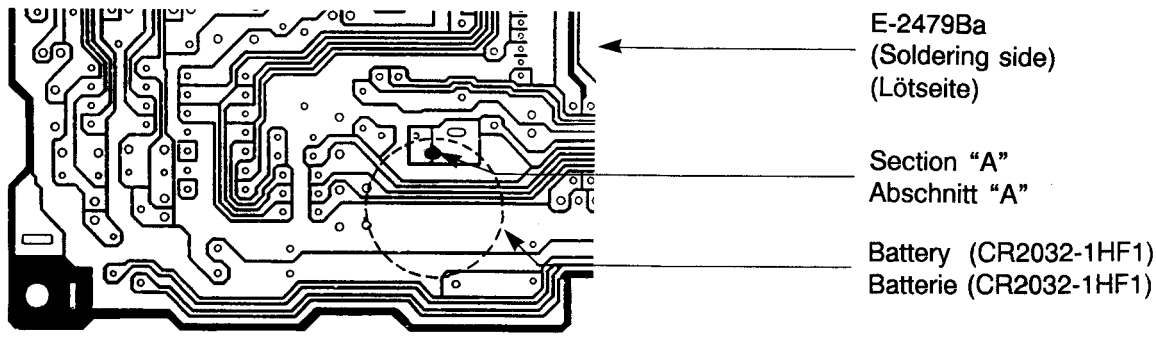
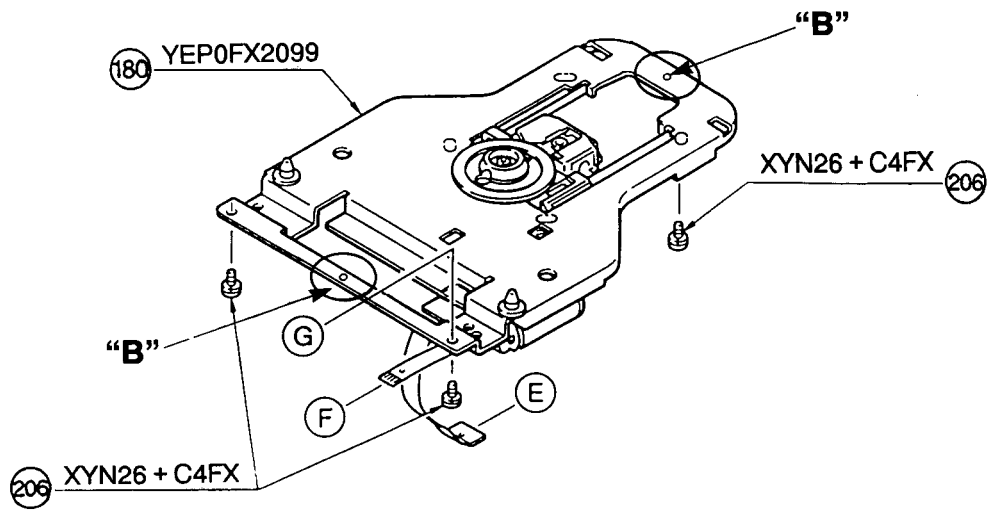


Fig. 1

THE NOTICE FOR FIXING THE SUSPENSION ASS'Y
BEIM BEFESTIGEN DER AUFHÄNGEEINHEIT ZU BEACHTEN

- If you fix suspension Ass'y to main deck chassis, please be sure to properly fix two dowels, "B" on the following figure, then fix three screws. Otherwise some problems accidentally happen.

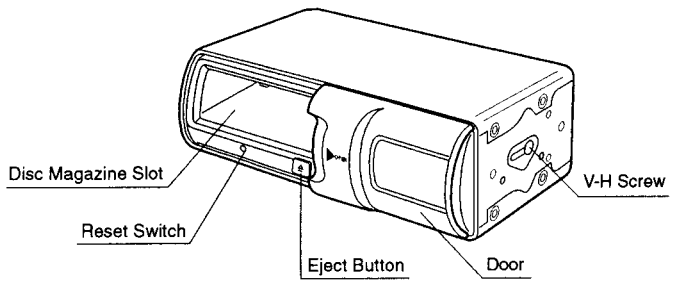
- Beim Befestigen der Aufhängeeinheit am Hauptdeckchassis unbedingt darauf achten, die beiden Dübel ("B" in der folgenden Abbildung) richtig anzubringen, dann die drei Schrauben auzuziehen, well sonst versehentlich einige Probleme auftreten können.



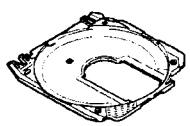
OPERATING INSTRUCTIONS

Location of Controls

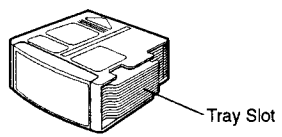
❑ CD CHANGER UNIT



❑ TRAY



❑ DISC MAGAZINE

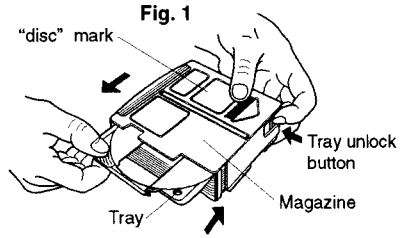


Preparations

To Insert a Disc

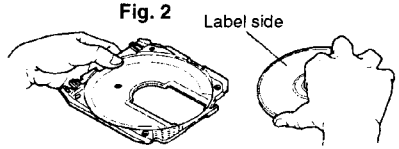
❶ Place the magazine with its "disc" mark up, and remove a tray **while keeping the tray unlock button depressed.**(Refer to Fig.1)

Fig. 1



❷ Hold a disc with your finger in its center hole and the thumb on its edge. **Be sure to hold it with the label side (the side where titles are printed) up.** Place the disc on the tray. (Refer to Fig.2)

Fig. 2



To Remove a Disc

Hold a disc with your finger in its center hole and the thumb on its edge, and remove the disc as shown in the Fig.3.

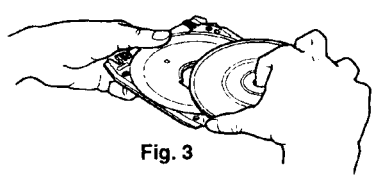


Fig. 3

Preparations (continued)

To Insert Trays into the Magazine

Note: While inserting or removing trays, **be sure to keep the magazine and trays level** to prevent the discs from dropping. **(See the figure 4)** Hold a tray by part A, and insert it straight into a slot until you hear a click.

Fig. 4

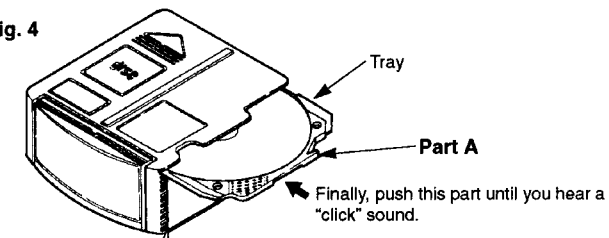
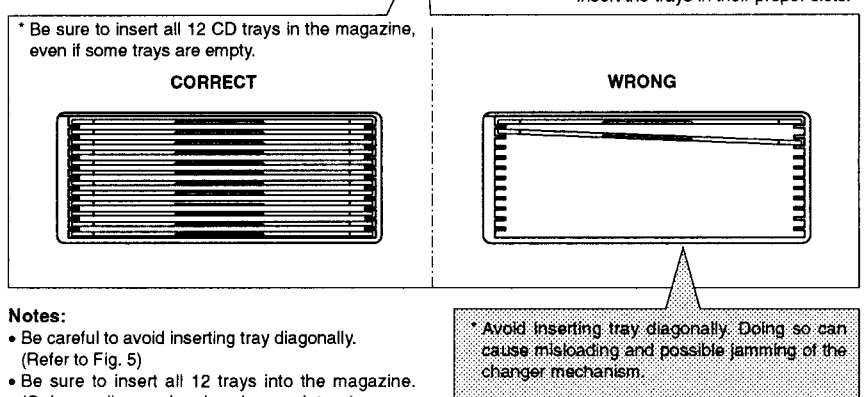


Fig. 5


Insert the trays in their proper slots.
* Be sure to insert all 12 CD trays in the magazine, even if some trays are empty.
CORRECT
WRONG
* Avoid inserting tray diagonally. Doing so can cause misloading and possible jamming of the changer mechanism.

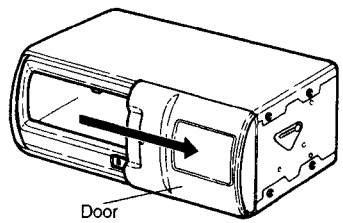
Notes:

- Be careful to avoid inserting tray diagonally. (Refer to Fig. 5)
- Be sure to insert all 12 trays into the magazine. (Only one disc can be placed on each tray.)

Note:
Do not use a 3" (8 cm) compact disc.

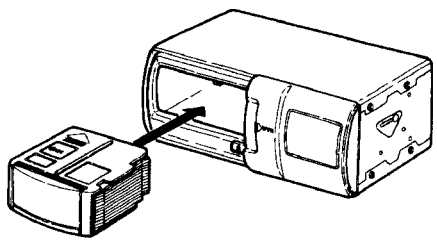
How to Use the CD Changer Unit and Disc Magazine

Slide the door to the right until you hear a "click" sound.



❑ To Load a CD Magazine

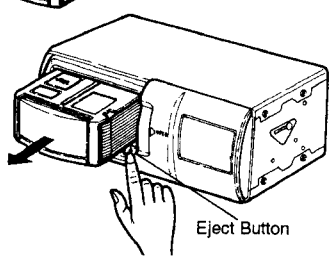
The magazine has an arrow on it. Insert the magazine until you hear a "click" sound.



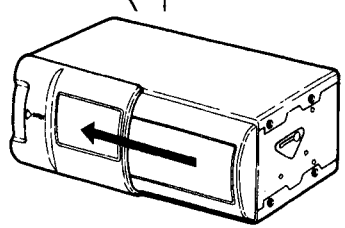
❑ To Remove a CD Magazine

Turn the ignition key ON (ACC) and switch on the optional main control unit (radio) power.

Press the EJECT button. The magazine will eject automatically.



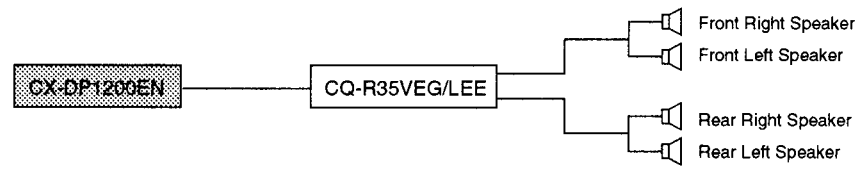
Note:
Be sure to keep the CD changer unit door close to prevent dirt and dust from getting into the unit and causing possible malfunctions.



System Diagram

Various types of speakers are available from your dealer. Select the speakers that suit your CD Changer Unit.

■ **Basic example of system configuration**
(With CD Changer Control Receiver/Cassette Player)



Notes
- For connection to a CD changer Control Receiver/Cassette Player (CQ-R95EN, CQ-RD95LEN etc.), the DIN adaptor cord will be necessary, refer to page 20.
  ① Please be sure to use the DIN Adaptor Cord provided when connecting to model CQ-R95EN, CQ-RD95LEN, as shown in the diagram on page 20.
  ② In combination with CD Changer Control Receiver/Cassette Player (CQ-R95EN, CQ-RD95LEN), the CD changer control functions, "Scanning Discs", "Disc Direct Access Play" and "Disc Title Features", cannot be used with this system.

Troubleshooting

❑ Helpful Hints

- The CD changer operates in a temperature range of from –10°C (14°F) to 55°C (131°F).
- Improper installation or driving on rough roads may cause the CD changer to skip while playing. This will not damage the disc or the unit.

❑ When Something Doesn't Work

Check the charts on next page for possible causes and solutions to any problem you might be experiencing. Some simple checks or minor adjustments may eliminate the problem.

❑ Error Display Messages

Display	Description
FULL	Displays when the memory is full.
E1	Displays when the compact disc is dirty or when it is inverted. Next compact disc is automatically selected.
E2	Displays when the compact disc has a scratch on it. Next compact disc is automatically selected.
E3	Displays when the unit stops operating for some reason. Press the reset switch in the CD changer unit.
0000	Displays when there is no disc in the disc magazine.

❑ Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

PROBLEM	POSSIBLE CAUSE	PROBABLE SOLUTION
No sound can be heard even if the disc magazine (with compact disc inserted) is properly loaded.	The compact disc is inverted.	Place the disc on the tray with label side facing up.
	The compact disc is very dirty.	Try to clean the compact disc by following instructions on page 11.
	The temperature inside the car is more than 55°C (131°F).	Give the interior a chance to cool down before using the unit.
	Excessive moisture.	Wait for a while before using the unit.
	The unit is in "pause" mode.	Press the pause button of the main control unit.
	Wiring connection is not properly done.	Confirm all wiring connection such as power cord, speaker cords, etc.
	Volume control is at "minimum" position.	Adjust the volume control to the proper level.
	"ACC" or radio fuse is blown out.	Replace the fuse with the correct rating.
Sound distorted due to vibration.	Installation method is bad.	Check the V-H screw position. (See page 9)
Inverted sound (Left/Right connections)	The speaker cords or RCA extension cords are inverted.	Check the speaker cords or RCA extension cords.
Sound distorted sometimes.	The compact disc may be defective.	Try to replace the disc with another one.
	The compact disc is dirty.	Try to clean the compact disc by following instructions on page 11.
The disc magazine does not eject.	The power switch is off.	Turn the ignition key to "ACC" and switch on the power of the main control unit. (Radio)
	The disc magazine may be defective.	Contact your nearest authorized dealer.

Installation

❑ Precautions

1. This unit operates only in a 12-volt DC negative ground system.
2. Before performing installation and wiring, remove the negative (–) terminal of the battery. (See Note Below.)

Note: Do not disconnect the negative battery terminal in vehicles with trip or navigational computers. All electronic memory settings previously registered will be lost. Take extra care to avoid short circuiting when installing the unit.

3. Follow the wiring connections diagram carefully to avoid causing damage to the unit.
4. Insulate all exposed wires to prevent short circuiting.
5. Secure all loose wires after installing the unit.
6. Please carefully read the operating and installation instructions of any equipment connected to this unit.
7. If the unit doesn't work after pressing other buttons, press the reset switch.

❑ Installation Hardwares

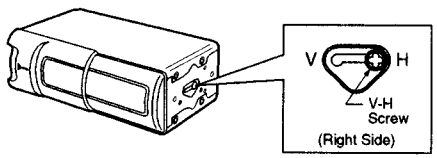
	Description	Q'ty		Description	Q'ty
①	Hex. Bolt with Double Washer (M5 x 10)	4	⑤	Spring Washer	4
②	Tapping Screw with Flat Washer (ϕ 6 x 20)	4	⑥	Flat Washer	4
③	Base Bracket	2	⑦	Mounting Bracket	2
④	Hex. Nut (M5)	4	⑧	Double-Faced Adhesive Tape	2

Installation (Continued)

You can install this unit either horizontally or vertically. See the figure below for mounting angle.

❑ V-H Screws Setting

The V-H Screws on the both left and right sides of the CD changer are factory-set to the V position.
Once you set the switch for your installation orientation, do not change the setting as doing so can cause audio interruption or distortion.



- Vertical mounting: Keep the screws at V position.
- Horizontal mounting: Loosen the screws and slide to H position.

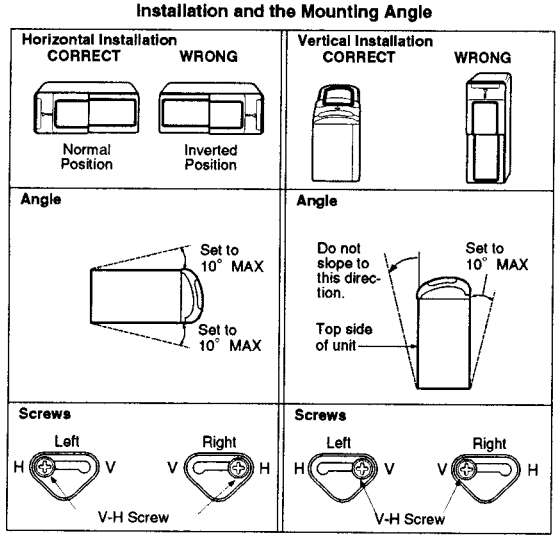
Note: Be sure to tighten the screws after setting. Be sure to set the screws on the **both left and right sides**.

❑ Installation Location

Do not install this unit on the rear tray of a car where the internal temperature can rise to high levels. Failure to comply with these instructions may cause problems. Also avoid installing the unit in the following locations.

- In areas hit by direct sunlight, hot air from the heater, or any other high-temperature location.
- In an area where you cannot firmly secure the unit, or in high-vibration areas.
- In areas with high humidity or high dirt and dust levels.

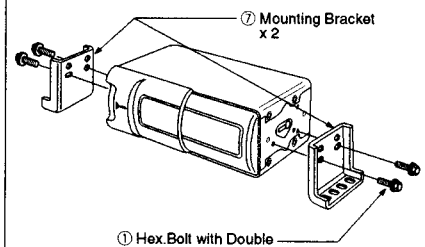
Installation and the Mounting Angle



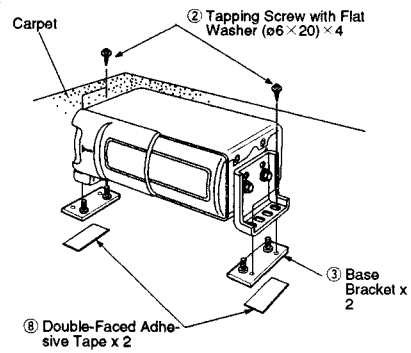
❑ Mounting Options

Horizontal installation (Trunk Floor Mounting)

1 Attach the mounting bracket ⑦ to the side of the unit with 4 hex.bolts ①.



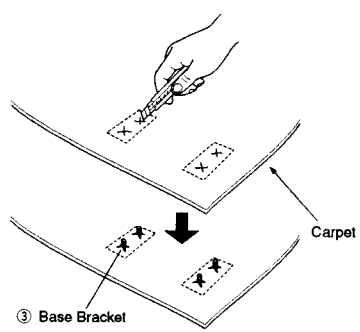
2 Select a location to install the unit on the carpet.



- Mark the 4 hole locations and drill a 4.5 mm hole in each.
- Install the unit with 4 tapping screws ② and 2 double-faced adhesive tapes ⑧.

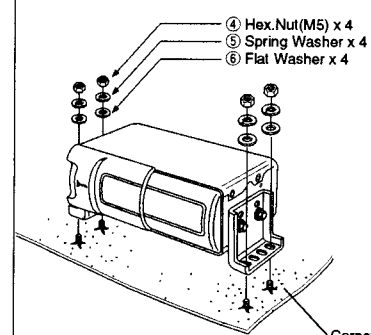
Caution:
- You run the risk of interfering with the mounting or causing damage by drilling into the gas tank, a wiring harness, or other component.

3 Cut the carpet in cross by the cutter.



- Install the base brackets and double-faced adhesive tapes under the carpet.

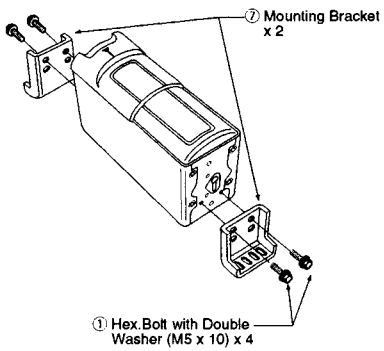
4 Install the unit with 4 hex.nuts ④, 4 spring washers ⑤ and 4 flat washers ⑥.



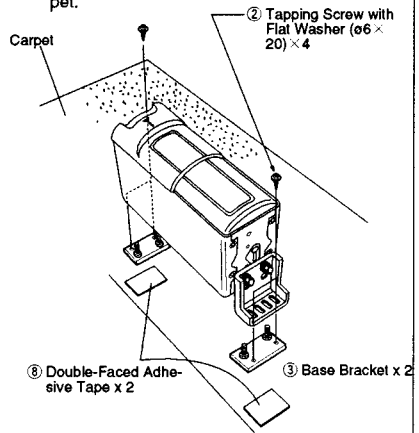
Installation (Continued)

Vertical installation

1 Attach the mounting bracket ⑦ to the side of the unit with 4 hex.bolts ①.



2 Select a location to install the unit on the carpet.

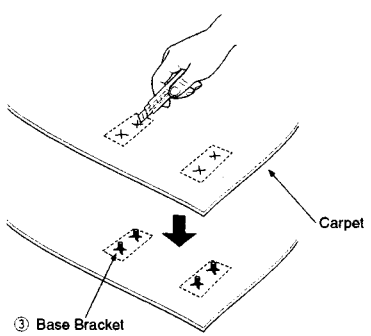


- Mark the 4 hole locations and drill a 4.5 mm hole in each.
- Install the unit with 4 tapping screws ② and 2 double-faced adhesive tapes ⑧.

Caution:

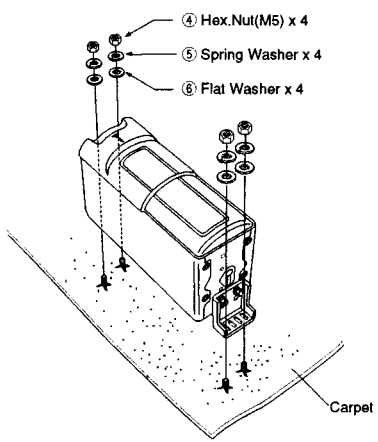
- You run the risk of interfering with the mounting or causing damage by drilling into the gas tank, a wiring harness, or other component.

3 Cut the carpet in cross by the cutter.



- Install the base brackets and double-faced adhesive tapes under the carpet.

4 Install the unit with 4 hex.nuts ④, 4 spring washers ⑤ and 4 flat washers ⑥.



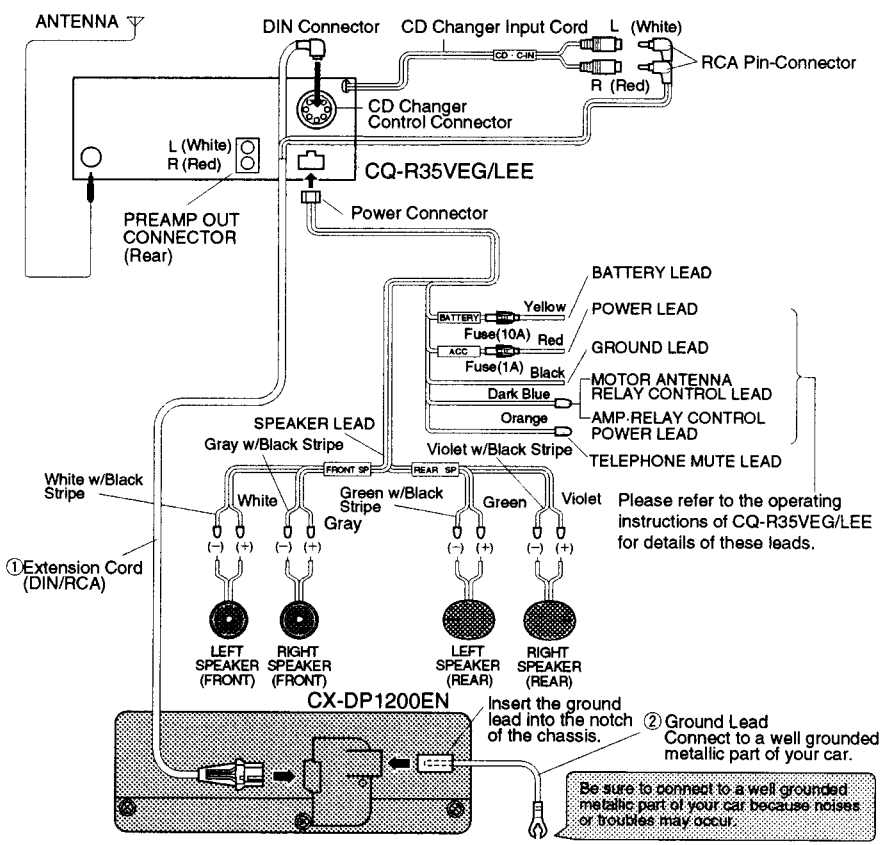
❑ Electrical Connection

- This system is be used only in a 12-volt. DC Battery system (car) with negative ground.
- Follow the wiring connection diagram. Failure to do so may result in damage to the unit.
- Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

In combination with CD Changer Control Receiver/Cassette Player (CQ-R35VEG/LEE)

Wiring Accessory

	Description	Q'ty
①	Extension Cord (DIN/RCA)	1
②	Ground Lead	1
③	DIN Adaptor Cord (For CQ-R95EN, CQ-RD95LEN)	1

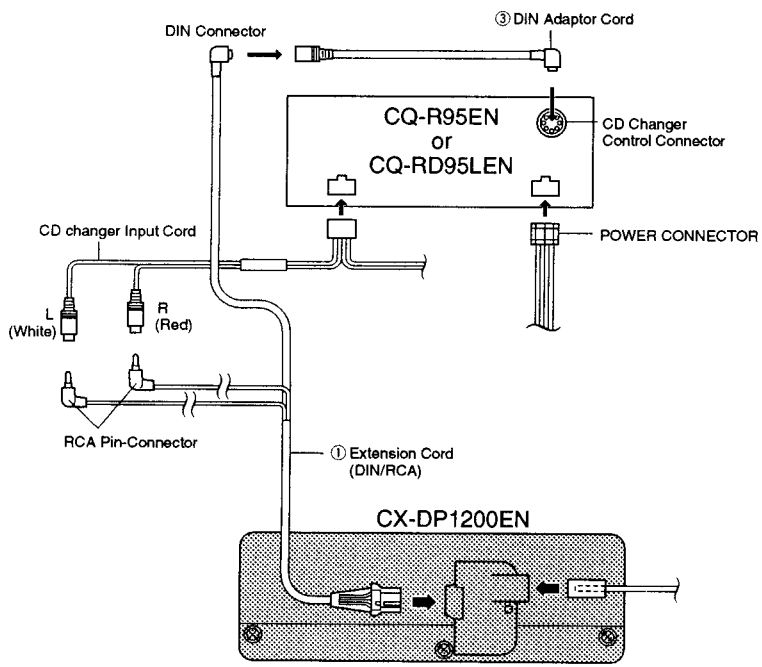


Installation (Continued)

❑ Connection Diagram

In combination with CD Changer Control Receiver/Cassette Player (CQ-R95EN, CQ-RD95LEN)

CAUTION:
- Please be sure to use the DIN Adaptor Cord provided when connecting to model CQ-R95EN, CQ-RD95LEN, as shown in the diagram below.
- The adaptor is not required if connecting to any other model.
- The CD changer control functions, "Scanning Discs", "Disc Direct Access Play" and "Disc Title Features", cannot be used with this system.
- If the CD changer is connected to CQ-RDP750LEN with the DIN adaptor cord, use the wireless remote controller CA-RC40EX (an optional accessory) to operate the CD changer.



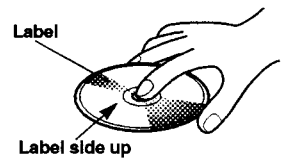
Special Notes

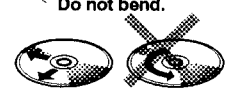
❑ Notes on Compact Discs

USE ONLY DISCS CARRYING THIS LABEL

COMPACT disc DIGITAL AUDIO

- Dirt, dust, scratches and bending of disc will cause misoperation. Handle discs with care.
- Do not place stickers or make scratches on disc.
- Do not bend discs.
- Disc should always be kept in the case when not in use to prevent from damaging.
- Do not place discs in the following places:
  1. In direct sunlight;
  2. In dirty, dusty and damp areas;
  3. Near the vehicle heater;
  4. On the seats or dashboard.



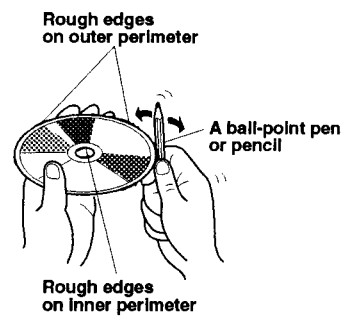


Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty use a soft cloth slightly dampened in isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner, conventional record cleaner, or mopper as they may mar the surface of the disc.

❑ Caution for use of a new Disc

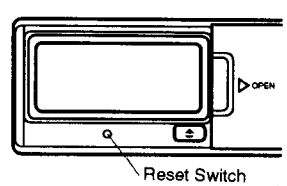
A new disc may have rough edges on its inner and outer perimeter. If a disc with rough edges is used, proper setting will not be possible and the CD player will not play the disc. Therefore, remove the rough edges in advance by using a ball-point pen or pencil as shown on right. To remove the rough edges, press the side of the pen or pencil against the inner and outer perimeter of the disc.



Exterior Cleaning

To clean the exterior of this unit, use a soft cloth to wipe the surface. Do not use benzine, thinner, or any other type of solvents.

In case abnormal operating conditions happen!!

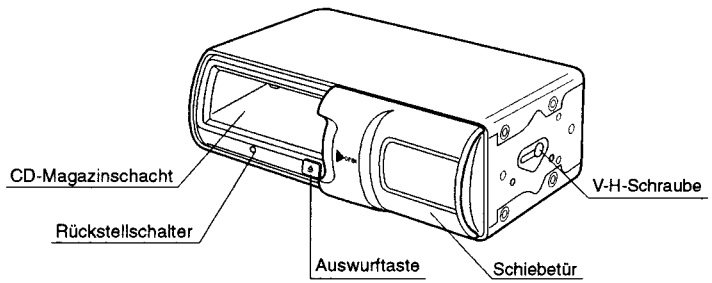


If you hear an abnormal noise or if the disc operating buttons do not function normally, press the Reset Switch using a pointed object, such as a pencil point.

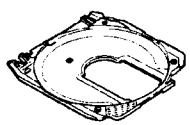
BEDIENUNGSANLEITUNG

Lage der Bedienungselemente

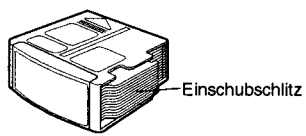
❑ CD-WECHSLER



❑ EINSCHUB



❑ DISC-MAGAZIN

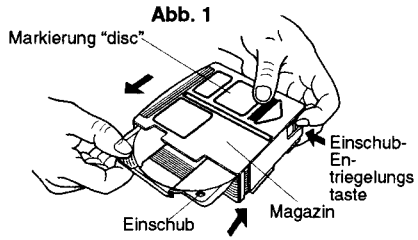


Vorbereitungen

Einlegen einer Disc

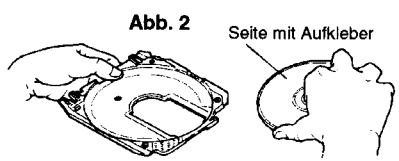
❶ Das Magazin so halten, daß die Markierung "disc" nach oben weist, und einen Einschub entfernen, **wobei die Einschub-Entriegelungstaste niederzudrücken ist.** (Siehe Abb. 1.)

Abb. 1



❷ Eine Disc mit dem Zeigefinger in der Mittelbohrung und dem Daumen am Rand festhalten. **Darauf achten, daß die Seite mit dem Aufkleber (auf den die Titel aufgedruckt sind) nach oben weist.**
Die Disc auf den Einschub legen. (Siehe Abb. 2.)

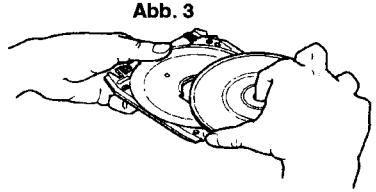
Abb. 2



Entfernen einer Disc

Eine Disc mit dem Zeigefinger in der Mittelbohrung und dem Daumen am Rand festhalten, und diese gemäß Abb. 3 vom Einschub entfernen.

Abb. 3

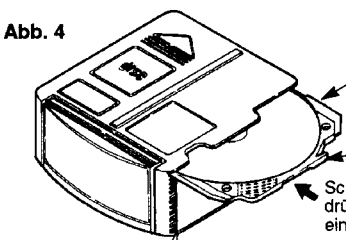


Vorbereitungen (Fortsetzung)

Einsetzen der Einschübe in das Magazin

Hinweis: Beim Einsetzen oder Entfernen von Einschüben darauf achten, **das Magazin und die Einschübe waagerecht zu halten,** um zu vermeiden, daß die Discs herausfallen. **(Siehe die Abbildung 4.)**
Einen Einschub am Teil A festhalten, und diesen gerade in einen Schlitz hineinschieben, bis er hörbar einrastet.

Abb. 4



Schließlich diesen Teil hineindrücken, bis der Einschub hörbar einrastet.

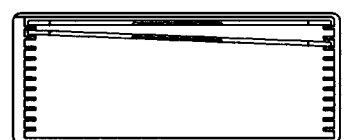
Die Einschübe in ihre richtigen Schlitze einsetzen.

Abb. 5

* Unbedingt alle 12 CD-Einschübe in das Magazin einsetzen, selbst wenn einige Einschübe leer sind.

RICHTIG

FALSCH



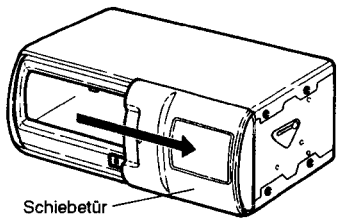
Anmerkungen:
- Vorsichtig sein, damit ein Einschub nicht schräg eingesetzt wird. (Siehe Abb. 5)
- Darauf achten, alle 12 Einschübe in das Magazin einzusetzen. (Jeweils nur eine Disc kann auf einen Einschub gelegt werden.)

*** Einen Einschub nicht schräg einsetzen. Ein schräg eingesetzter Einschub kann ein fehlerhaftes Laden und mögliches Festklemmen des Wechslermechanismus verursachen.**

Zur Beachtung:
Keine 8cm-Compact-Disc Verwenden.

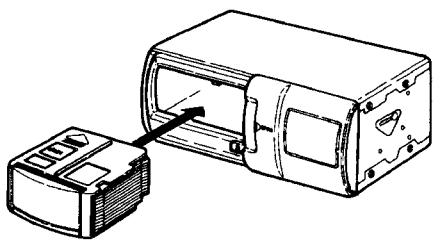
Verwendung von CD-Wechsler und CD-Magazin

Die Schiebetür nach rechts schieben, bis ein Einrastgeräusch zu hören ist.



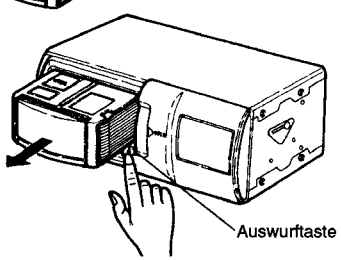
❑ Laden eines CD-Magazin

An der Oberseite des Magazin ist eine Pfeilmarkierung vorhanden. Das Magazin hineinschieben, bis es hörbar einrastet.

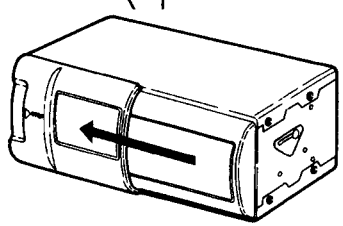


❑ Entfernen eines CD-Magazins

Den Zündschlüssel auf ON (ACC) drehen, und die Stromversorgung der optionalen Hauptsteuereinheit (Radio) einschalten.
Die Auswurftaste (EJECT) drücken. Das Magazin wird automatisch ausgeworfen.



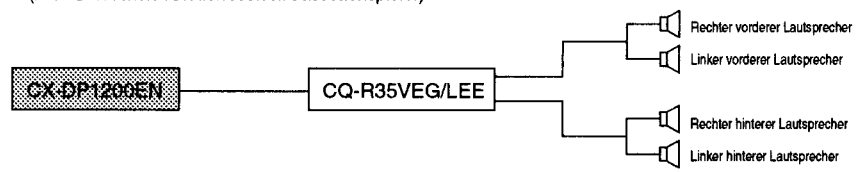
Hinweis:
Darauf achten, die Schiebetür des CD-Wechslers geschlossen zu halten, damit kein Schmutz und Staub in das Gerät eindringt, wodurch möglicherweise Betriebsstörungen verursacht werden.



Systemdiagramm

Verschiedene Typen von Lautsprechern sind bei Ihrem Fachhändler erhältlich. Wählen Sie die zu Ihrem Steuergerät bzw. Endstuten passenden Lautsprecher.

■ **Grundbeispiel einer Systemkonfiguration**
(mit CD-Wechsler/Steuerreceiver/Cassettenspieler)



Hinweise:
- Für den Anschluß an einen CD-Wechsler/Steuerreceiver/Cassettenspieler (CQ-R95EN, CQ-RD95LEN usw.) ist das DIN-Adapterkabel erforderlich. Siehe Seite 34.
  ① Bitte darauf achten, das mitgelieferte DIN-Adapterkabel zu verwenden, wenn das Gerät gemäß dem Diagramm auf Seite 34 an das Modell CQ-R95EN, CQ-RD95LEN angeschlossen wird.
  ② In Kombination mit dem CD-Wechsler/Steuerreceiver/Cassettenspieler (CQ-R95EN, CQ-RD95LEN), die CD-Wechsler-Steuerfunktionen "Abtasten von Discs", "Disc-Wiedergabe mit direktem Zugriff" und "Disc-Titelmerkmale" können bei diesem System nicht benutzt werden.

Störungsbeseitigung

❑ Nützliche Hinweise

- Der CD-Wechsler arbeitet in einem Temperaturbereich von –10°C bis 55°C.
- Durch einen unvorschriftsmäßigen Einbau oder durch Fahren auf unebenen Straßen kann verursacht werden, daß beim CD-Wechsler während der Wiedergabe Tonausfälle auftreten. Dadurch wird jedoch die Disc oder das Gerät nicht beschädigt.

❑ Wenn etwas nicht funktioniert

Beim Auftreten irgendwelcher Störungen anhand der Tabellen auf der nächsten Seite die mögliche Ursachen ausfindig machen und entsprechende Abhilfemaßnahmen treffen. Einige einfache Überprüfungen oder kleine Einstellungen können das Problem möglicherweise beheben.

❑ Fehleranzeige

Display	Beschreibung
FULL	Leuchtet auf, wenn der Speicher voll ist.
E1	Leuchtet auf, wenn die Compact-Disc verschmutzt oder verkehrt eingesetzt ist. Die nächste Compact-Disc wird automatisch angewählt.
E2	Leuchtet auf, wenn die Compact-Disc einen Kratzer aufweist. Die nächste Compact-Disc wird automatisch angewählt.
E3	Leuchtet auf, wenn die Einheit aus irgendeinem Grund den Betrieb einstellt. Die Rückstellschalter des CD-Wechslers drücken.
0000	Leuchtet auf, wenn sich keine Disc in dem CD-Magazin befindet.

❑ Störungsbeseitigung

Bevor Sie sich an einen Kundendienst wenden, sollten Sie anhand der nachfolgenden Tabellen die möglichen Ursachen für das jeweilige Problem überprüfen und die geeigneten Abhilfen treffen. Einige einfache Prüfungen oder kleine Einstellungen können das Problem beheben und wieder richtigen Betrieb sicherstellen.

Problem	Mögliche Ursache	Abhilfe
Kein Ton, auch wenn ein CD-Magazin (mit eingesetzten Compact-Discs) richtig eingesetzt ist.	Die Compact-Disc ist verkehrt eingelegt.	Die Disc mit nach oben weisender Aufkleberseite auf den Einschub legen.
	Die Compact-Disc ist stark verschmuzt.	Die Compact-Disc gemäß den Anweisungen auf Seite 17 reinigen.
	Die Temperatur im Fahrzeug beträgt mehr als 55°C	Lassen Sie den Innenraum abkühlen, bevor Sie die Einheit verwenden.
	Übermäßige Feuchtigkeit.	Einige Zeit warten, bevor die Einheit verwendet wird.
	Die Einheit befindet sich in dem Pausemodus.	Die Pausetaste der Hauptsteuereinheit drücken.
	Die Verdrahtung ist nicht richtig ausgeführt.	Die Verdrahtung und Anschlüsse des Stromkabels, der Lautsprecherkabel usw. überprüfen.
	Der Lautstärkeregler ist auf Minimum gestellt.	Den Lautstärkeregler auf einen geeigneten Pegel einstellen.
	"ACC" oder Sicherung des Radios ist durchgebrannt.	Die Sicherung des Verstärkers ist durchgebrannt.
Ton verzerrt aufgrund von Vibrationen.	Der Einbau ort ist üngünstig.	Den Einbau ort wechseln. Das Gerät sicher befestigen. Die Position der V-H-Schraube überprüfen. (Siehe Seite 15.)
Kanäle (links/rechts) vertauscht.	Die Lautsprecherkabel oder die RCA-Verlängerungskabel sind vertauscht.	Die Lautsprecherkabel und die RCA-Verlängerungskabel auf richtige Kanal zugebörigkeit prüfen.
Klang ist manchmal verzerrt.	Die Compact-Disc ist schadhaft.	Die Compact-Disc durch eine neue Disc ersetzen.
	Die Compact-Disc ist verschmutzt.	Die Compact-Disc gemäß den Anweisungen auf Seite 17 reinigen.
Das CD-Magazin kann nicht ausgeworfen werden.	Der Stromschalter ist ausgeschaltet.	Den Zündschlüssel auf Position "ACC" drehen und die Stromversorgung der Hauptsteuereinheit einschalten. (Radio)
	Das CD-Magazin ist schadhaft.	Wenden Sie sich an Ihren nächsten autorisierten Fachhändler.

Einbau

❑ Vorsichtsmaßregeln

1. Dieses Gerät funktioniert nur in einer 12V-Gleichstromanlage mit negativer Erdung.
2. Vor dem Einbau und der Verdrahtung die negative (–) Klemme der Batterie abtrennen. (Siehe folgenden Hinweis.)

Hinweis: Die negative Batterieklemme nicht in Fahrzeugen abtrennen, die mit Fahrt- oder Navigations-Computern ausgerüstet sind. Alle elektronischen Speichereinstellungen, die früher registriert worden sind, werden gelöscht. Beim Einbauen des Gerätes besonders vorsichtig sein, um Kurzschlüsse zu vermeiden.

3. Das Anschlußdiagramm ist genau einzuhalten, um eine Beschädigung des Gerätes zu vermeiden.
4. Alle freiliegenden Drähte isolieren, um Kurzschlüsse zu vermeiden.
5. Nach dem Einbau des Gerätes alle losen Drähte festmachen.
6. Die Betriebs- und Einbauanleitungen irgendeiner an dieses Gerät angeschlossenen Ausrüstung aufmerksam durchlesen.
7. Falls das Gerät nach dem Drücken von anderen Tasten nicht funktioniert, den Rückstellschalter drücken.

❑ Einbau-Teileliste

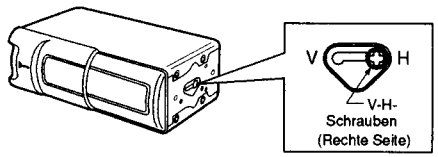
	Beschreibung	Stückzahl		Beschreibung	Stückzahl
①	Sechskantschraube mit doppelten Unterlegescheiben (M5 x 10)	4	⑤	Federnde Unterlegescheibe	4
②	Blechschraube mit Scheiben (ø6 x 20)	4	⑥	Flache Unterlegescheibe	4
③	Bodenhalterung	2	⑦	Montagehalterung	2
④	Sechskantmutter (M5)	4	⑧	Doppelseitiges Klebeband	2

Einbau (Fortsetzung)

Dieses Gerät kann entweder horizontal oder vertikal eingebaut werden. Einzelheiten über den Montagewinkel sind aus der folgenden Abbildung ersichtlich.

❑ V-H-Schrauben Einstellung

Die V-H-Schrauben auf der linken und rechten Seite des CD-Wechslers werden im Werk auf die Position V eingestellt. Nachdem der Schalter entsprechend der Einbauweise eingestellt worden ist, die Einstellung nicht ändern, weil sonst Tonausfälle oder Verzerrungen verursacht werden können.



- Vertikaler Einbau: Die Schrauben in der Position V lassen
- Horizontaler Einbau: Die Schrauben lösen und zur Position H verschieben.

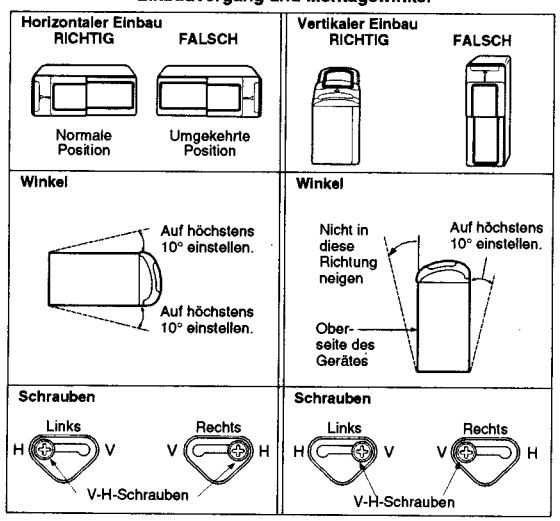
Hinweis: Die Schrauben sind nach dem Einbau unbedingt anzuziehen. Darauf achten, die Schrauben **sowohl auf der linken als auch auf der rechten Seite anzuziehen.**

❑ Einbauort

Dieses Gerät nicht auf der Hutablage im Fond des Fahrzeuges einbauen, da dort die Temperatur sehr hoch ansteigen kann. Nichtbeachtung dieser Anweisung kann zu Störungen führen. Außerdem das Gerät nicht an den folgenden Orten einbauen.

- An orten, die direkter Sonnenbestrahlung, Warmluft von der Heizanlage oder sonstwie hoher Temperatur ausgesetzt sind.
- An einem Ort, an dem Gerät nicht einwandfrei befestigt werden kann, oder an Orten mit starker Vibration.
- An Orten mit hoher Luftfeuchtigkeit bzw. mit viel Schmutz und Staub.

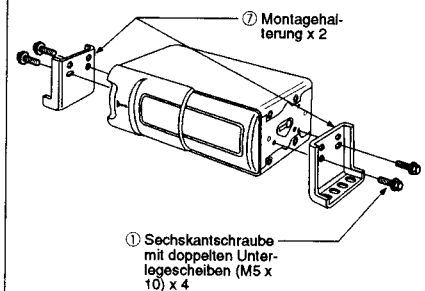
Einbauvorgang und Montagewinkel



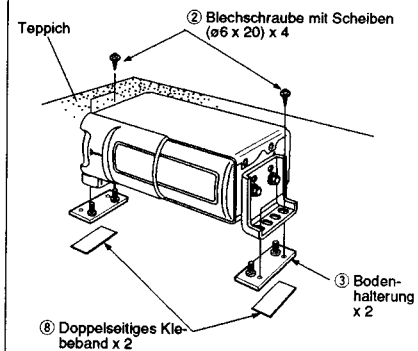
❑ Einbaumöglichkeiten

Horizontaler Einbau (Montage auf dem Kofferraumboden)

1 Die Montagehalterungen ⑦ mit 4 Sechskantschrauben ① an beiden Seiten Gerätes befestigen.



2 Einen Ort wählen, an dem das Gerät auf dem Teppich montiert wird.

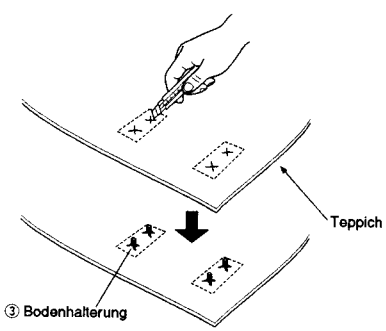


- Vier Löcherpositionen markiersen und jeweils ein 4,5 mm Loch bohren.
- Das Gerät mit 4 Blechschraube mit Scheiben ② und 2 doppelseitigen Klebebändern ⑧ montieren.

Vorsicht:

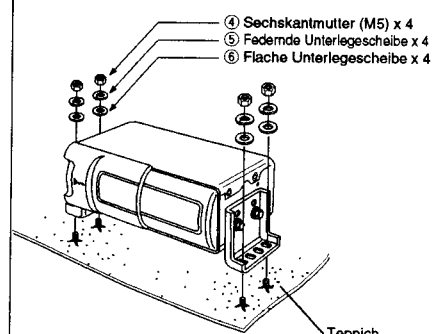
- Es besteht die Gefahr einer Behinderung der Montage bzw. einer Beschädigung durch Anbohren des Kraftstoffbehälters, eines Kabelbaums oder eines anderen Bauteils.

3 Mit dem Schneider kreuzförmige Schnitte in den Teppich machen.



- Die Bodenhalterungen und doppelseitigen Klebebänder unter dem Teppich anbringen.

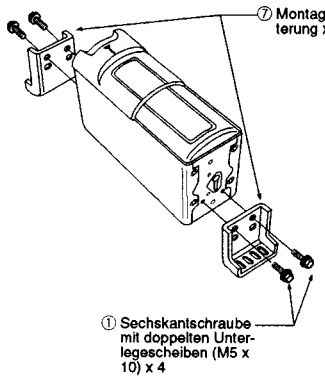
4 Das Gerät mit 4 Sechskantmuttern ④, 4 federnden Unterlegescheiben ⑤ und 4 flachen Unterlegescheiben ⑥ festmachen.



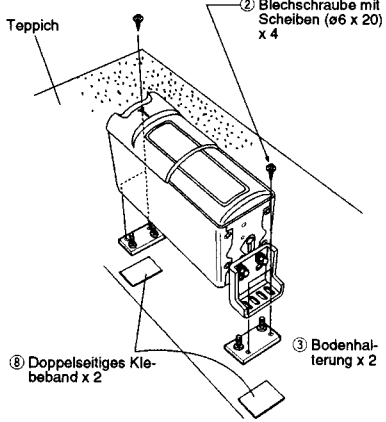
Einbau (Fortsetzung)

Vertikaler Einbau

1 Die Montagehalterungen ⑦ mit 4 Sechskantschrauben ① an beiden Seiten Gerätes befestigen.



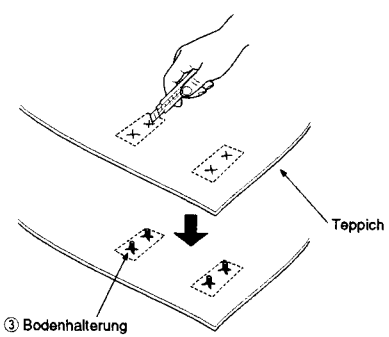
2 Einen Ort wählen, an dem das Gerät auf dem Teppich montiert wird.



- Vier Löcherpositionen markiersen und jeweils ein 4,5 mm Loch bohren.
- Das Gerät mit 4 Blechschraube mit Scheiben ② und 2 doppelseitigen Klebebändern ⑧ montieren.

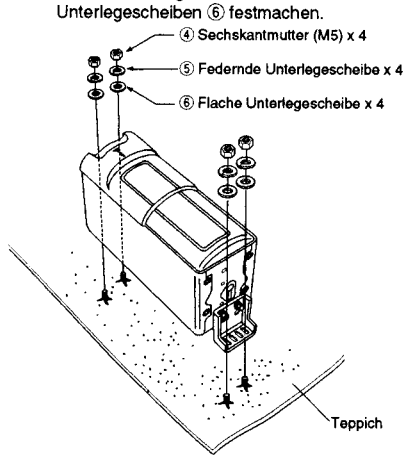
Vorsicht:
- Es besteht die Gefahr einer Behinderung der Montage bzw. einer Beschädigung durch Anbohren des Kraftstoffbehälters, eines Kabelbaums oder eines anderen Bauteils.

3 Mit dem Schneider kreuzförmige Schnitte in den Teppich machen.



- Die Bodenhalterungen und doppelseitigen Klebebänder unter dem Teppich anbringen.

4 Das Gerät mit 4 Sechskantmuttern ④, 4 federnden Unterlegescheiben ⑤ und 4 flachen Unterlegescheiben ⑥ festmachen.



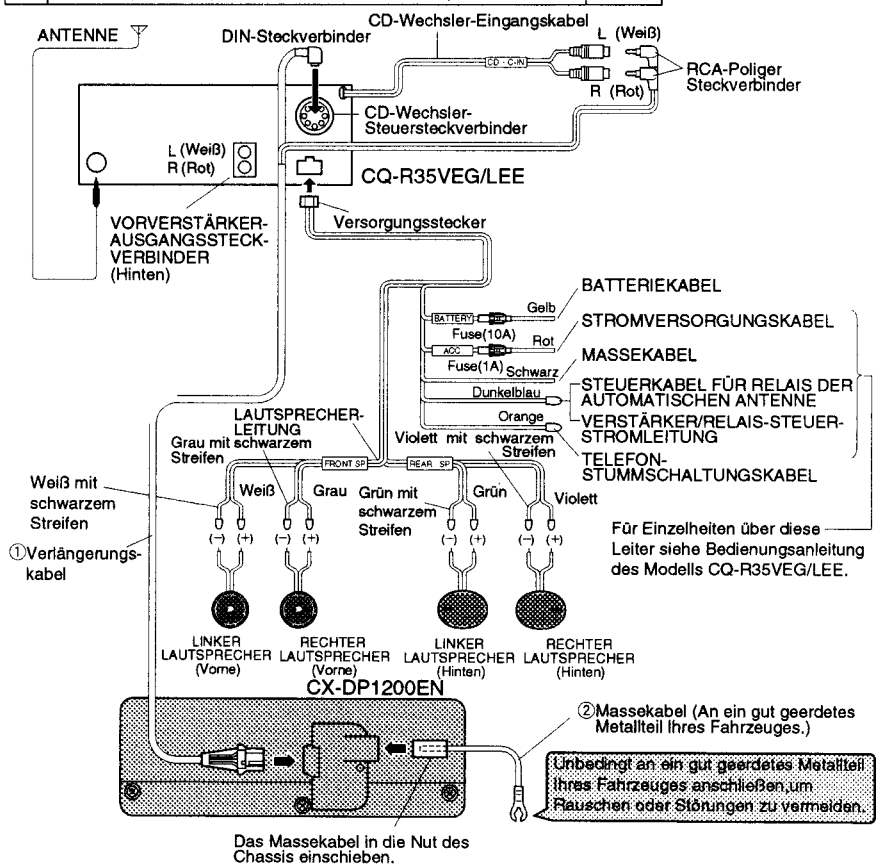
❑ Elektrischer Anschluß

- Dieses Gerät darf nur in einer 12-Volt-Gleichstrom-Batterieanlage (Fahrzeug) mit negativer Erdung verwendet werden.
- Gemäß dem Anschlußdiagramm vorgehen. Wird dies unterlassen, kann eine Beschädigung des Gerätes die Folge sein.
- Die Betriebs- und Einbauanleitungen der jeweiligen Ausrüstung aufmerksam durchlesen, bevor diese an das Gerät angeschlossen wird.

In Kombination mit dem CD-Wechsler/Steuerreceiver/Cassettenspieler (CQ-R35VEG/LEE)

Verdrahtungszubehör

	Beschreibung	Stückzahl
①	Verlängerungskabel (DIN/RCA)	1
②	Massekabel	1
③	DIN-Adapterkabel (für CQ-R95EN, CQ-RD95LEN)	1

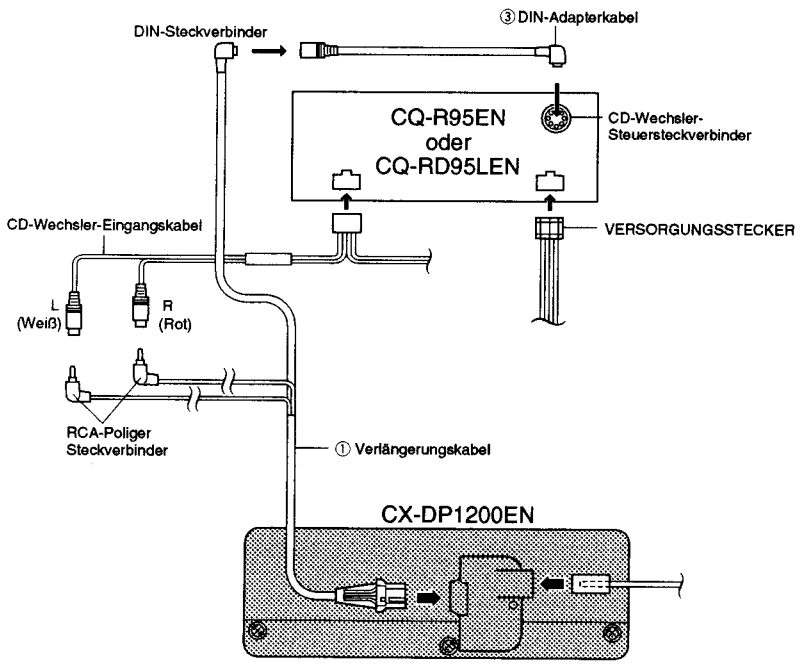


Einbau (Fortsetzung)

❑ Anschlußdiagramm

In Kombination mit dem CD-Wechsler/Steuerreceiver/Cassettenspieler (CQ-R95EN, CQ-RD95LEN)

VORSICHT:
- Bitte darauf achen, das mitgelieferte DIN-Adapterkabel zu verwenden, wenn das Gerät gemäß dem folgenden Diagramm an das Modell CQ-R95EN, CQ-RD95LEN angeschlossen wird.
- Das Adapterkabel ist nicht erforderlich, wenn der Anschluß an irgendein anderes Modell erfolgt.
- Die CD-Wechsler-Steuerfunktionen "Abtasten von Discs", "Disc-Wiedergabe mit direktem Zugriff" und "Disc-Titelmerkmale" können bei diesem System nicht benutzt werden.
- Wenn der CD-Wechsler mit dem DIN-Adapterkabel an CQ-RDP750LEN angeschlossen ist, das drahtlose Fernbedienungsgerät CA-RC40EX (Sonderzubehör) verwenden, um den CD-Wechsler zu betreiben.



Besondere Hinweise

❑ Hinweise über Compact-Discs

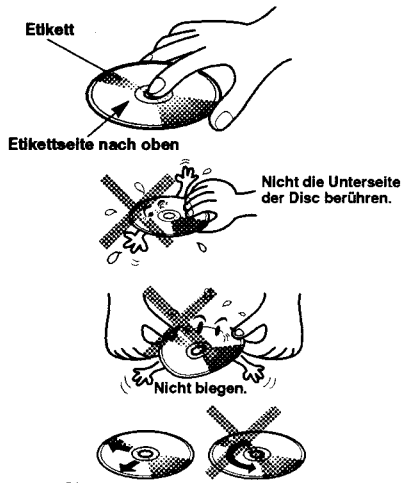
VERWENDEN SIE NUR SOLCHE COMPACT-DISCS, DIE DAS RECHTS DARGESTELLTE ETIKETT AUFWEISEN

COMPACT disc DIGITAL AUDIO

- Staub, Schmutz, Kratzer und Disc-Verformung werden Betriebsstörungen verursachen. Bitte hand haben Sie Compact-Discs sorgfältig.
- Zerkratzen Sie Compact-Discs nicht, und kleben Sie keine Etiketten darauf.
- Biegen Sie Compact-Discs nicht.
- Compact-Discs sollten zum Schutz gegen Beschädigung immer in ihrer Plastikhülle aufbewahrt werden, solange sie nicht benutzt werden.
- An den folgenden Orten sollten Compact-Discs nicht herumliegen:
  1. Unter direkter Sonneneinstrahlung
  2. Schmutzige, staubreiche und feuchte Orte
  3. In der Nähe einer Fahrzeugheizung
  4. Auf den Sitzen und dem Armaturenbrett

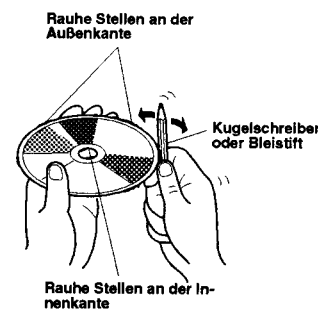
Reinigen von Compact-Discs

Wischen Sie die Oberfläche mit einem trockenen, weichen Tuch ab. Falls die CD stark verschmutzt ist, sollten Sie ein leicht mit Isopropylalkohol befeuchtetes, weiches Tuch verwenden. Benutzen Sie niemals solche Flüssigkeiten wie Benzin, Farbverdünner oder Schallplattenreiniger, da die Disc-Oberfläche sonst leicht beschädigt werden könnte.


Etikett
Etikettseite nach oben
Nicht die Unterseite der Disc berühren.
Nicht biegen.
Die Disc von der Mitte her nach aussen sauberwischen.

❑ Vorsichtsmaßnahmen bei neuen Compact-Discs

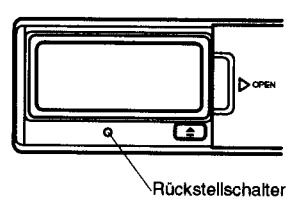
Eine neue Compact-Disc hat an der inneren und der äußeren Kreiskante eventuell rauhe Stellen. Wenn solch eine CD mit rauher Kante verwendet wird, ist keine präzise Positionierung möglich, und der CD-Spieler kann die Compact-Disc nicht abspielen. Entfernen Sie solche unregelmäßigen Stellen mit einem Kugelschreiber oder Bleistift, wie rechts dargestellt. Pressen Sie einfach die Seite des Schreibstifts gegen die äußere und innere Kante der Compact-Disc.



Reinigung des Gerätes

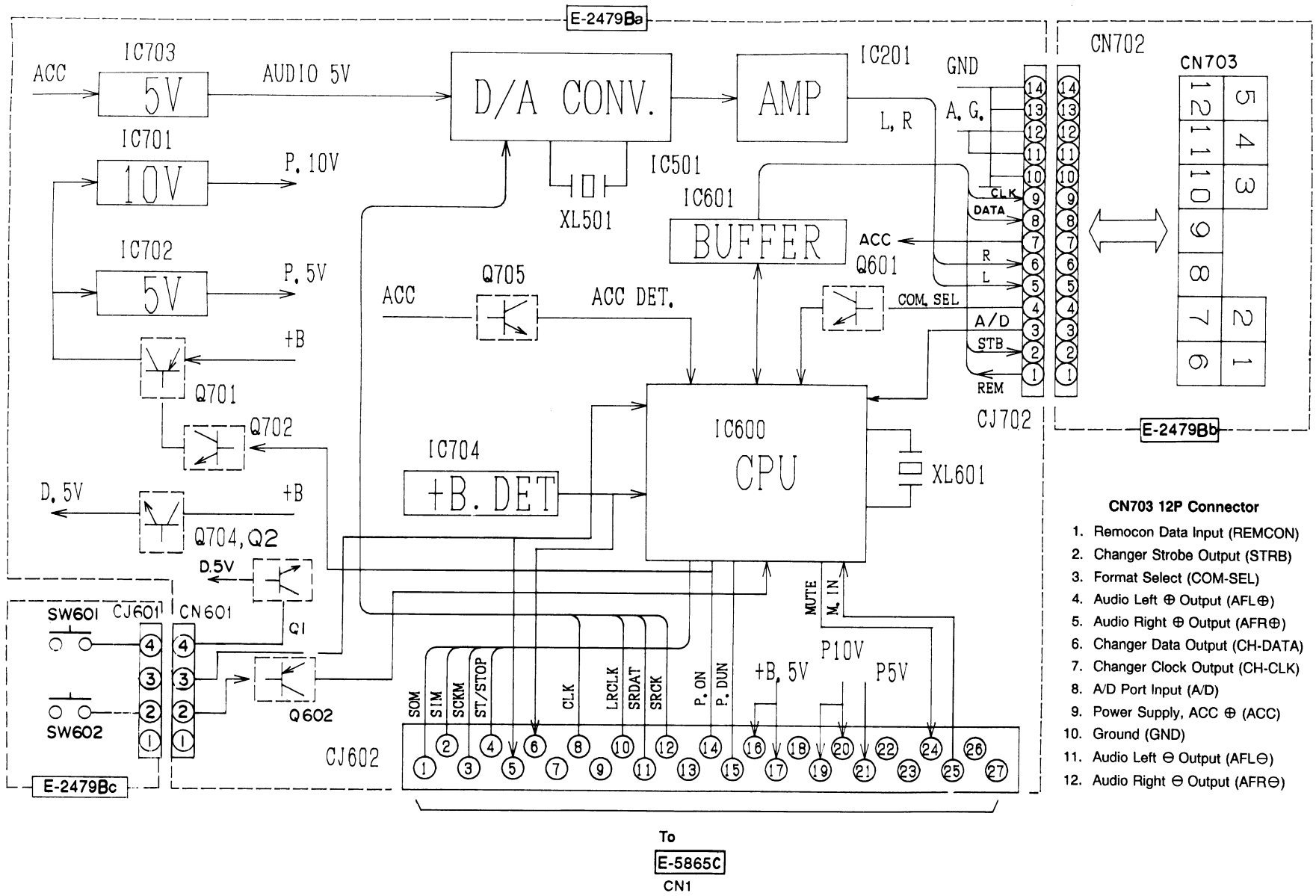
Zur Reinigung des Gerätes mit einem weichen Tuch abwischen. Auf keinen Fall Benzin, Verdünner oder irgendein anderes Lösungsmittel verwenden.

Abnormale Betriebsbedingungen!!



Falls ein ungewöhnliches Geräusch zu hören ist oder die Disc-Bedienungstasten nicht normal funktionieren, den Rückstellschalter mit einem spitzen Gegenstand, wie z.B. einer Bleistiftspitze, niederdrücken.

BLOCK DIAGRAM MODEL CX-DP1200EN (I/F Block)

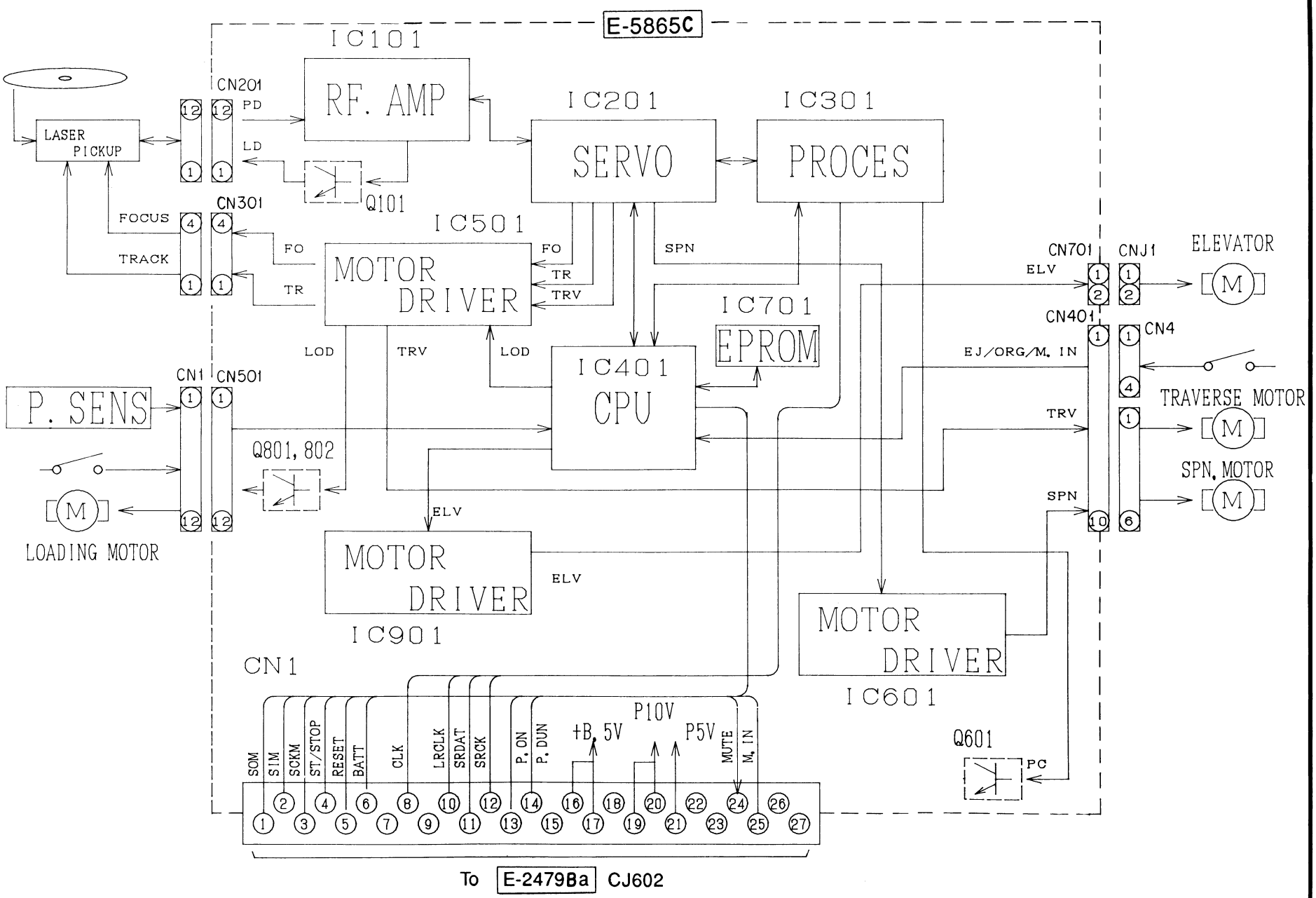


CN703 12P Connector

1. Remocon Data Input (REMCON)
2. Changer Strobe Output (STRB)
3. Format Select (COM-SEL)
4. Audio Left ⊕ Output (AFL⊕)
5. Audio Right ⊕ Output (AFR⊕)
6. Changer Data Output (CH-DATA)
7. Changer Clock Output (CH-CLK)
8. A/D Port Input (A/D)
9. Power Supply, ACC ⊕ (ACC)
10. Ground (GND)
11. Audio Left ⊖ Output (AFL⊖)
12. Audio Right ⊖ Output (AFR⊖)

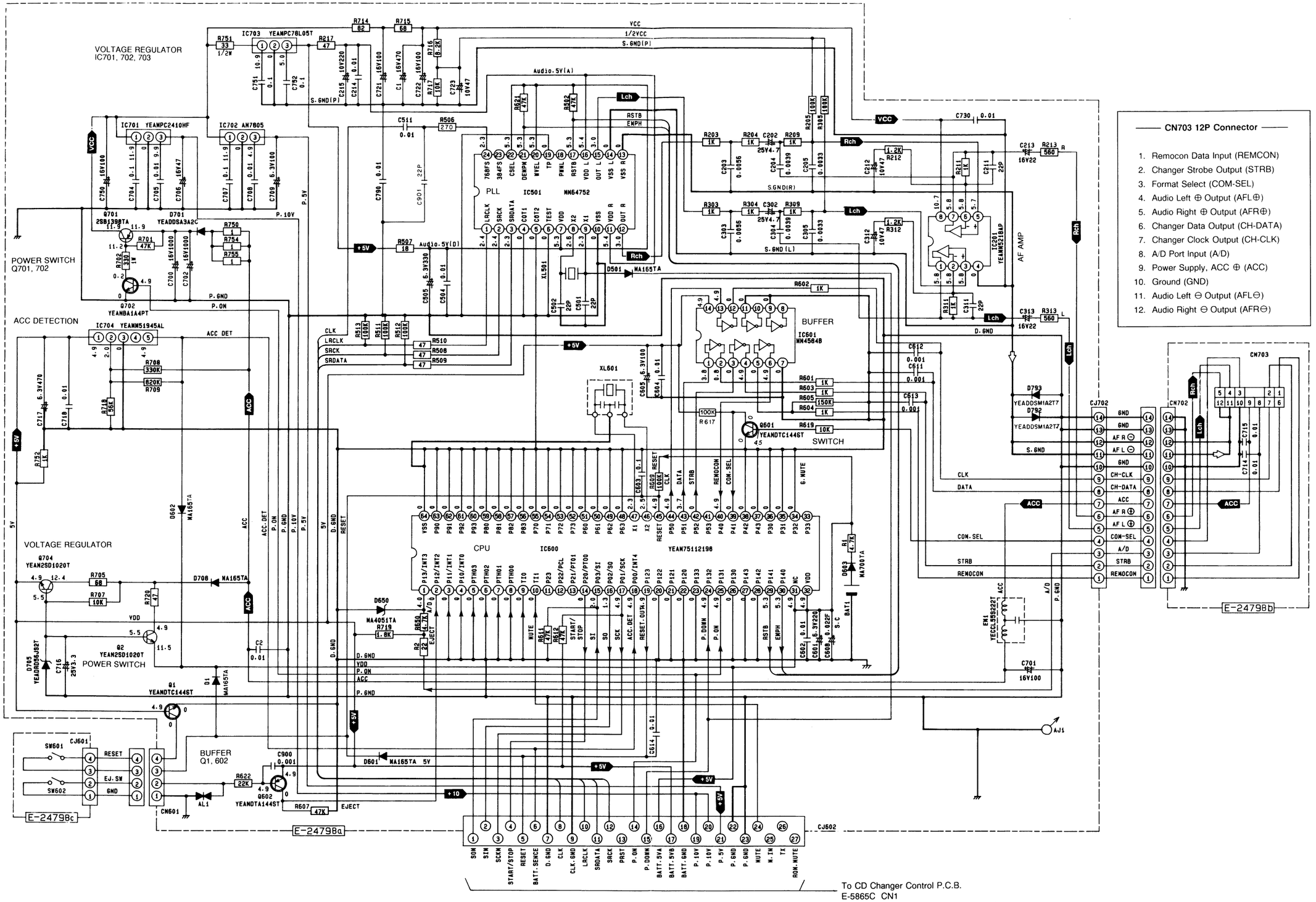
12-Disc CD Changer / 12-Disc CD-Wechsler

BLOCK DIAGRAM MODEL CX-DP1200EN (Servo Block)



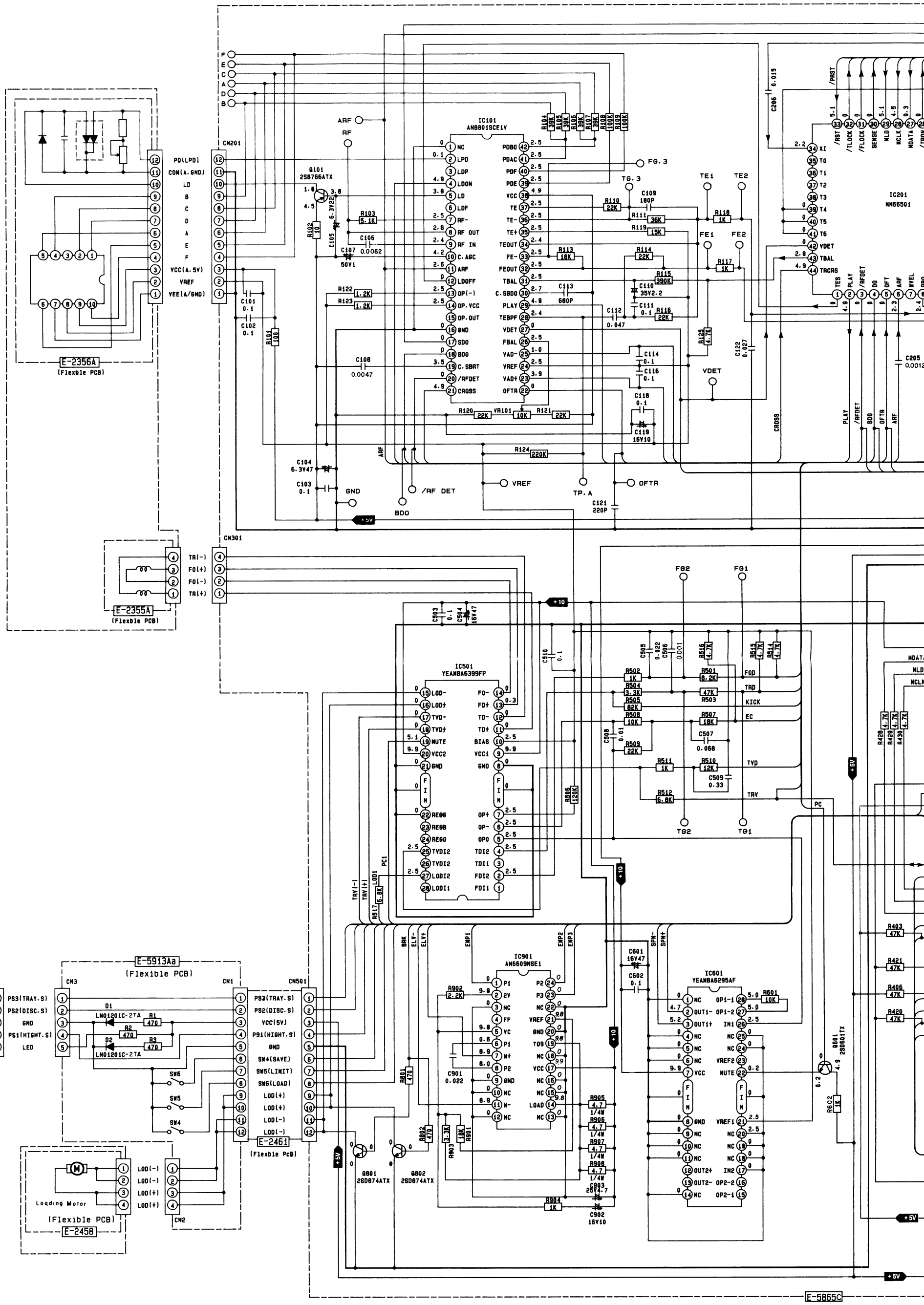
12-Disc CD Changer / 12-Disc CD-Wechsler

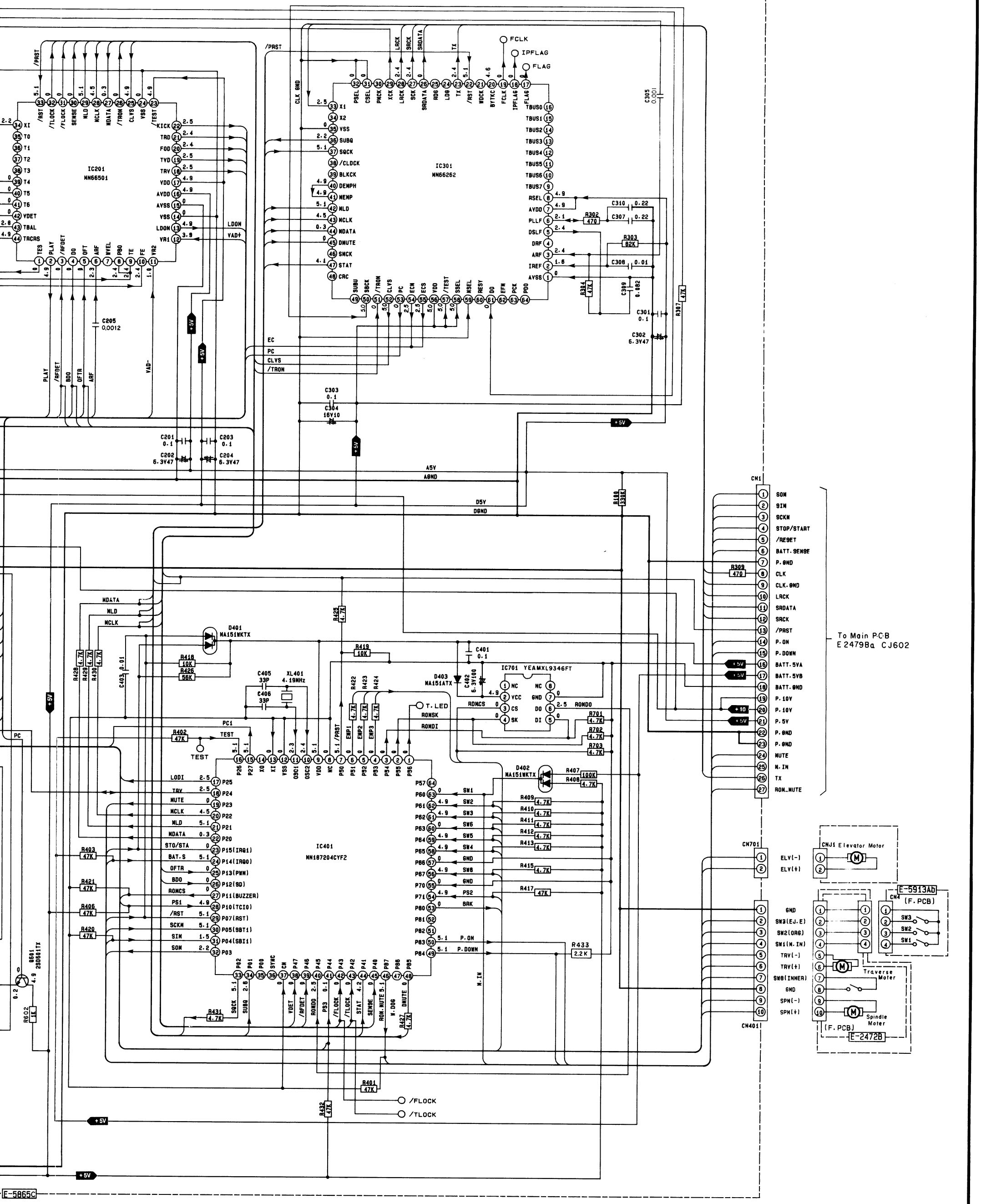
SCHEMATIC DIAGRAM / SCHALTBILT MODEL CX-DP1200EN (I/F Block)



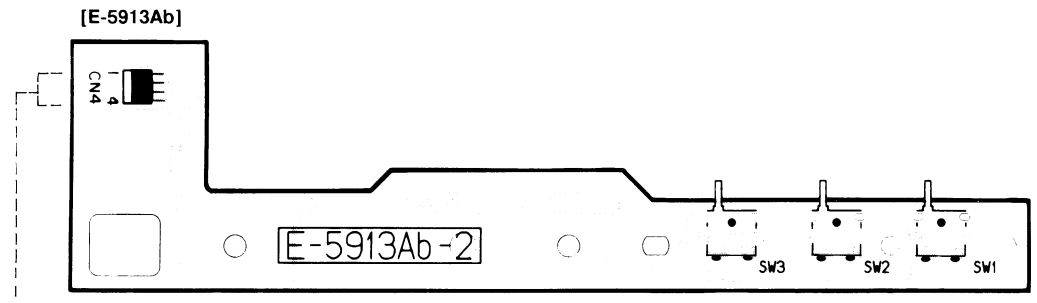
12-Disc CD Changer / 12-Disc CD-Wechsler

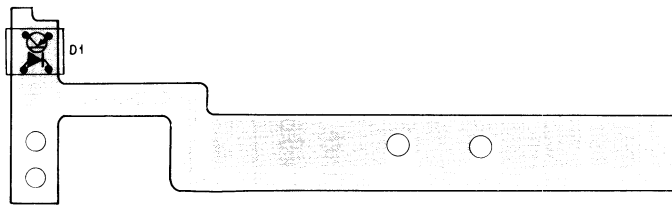
SCHEMATIC DIAGRAM / SCHALTBILT MODEL CX-DP1200EN (Servo Block)

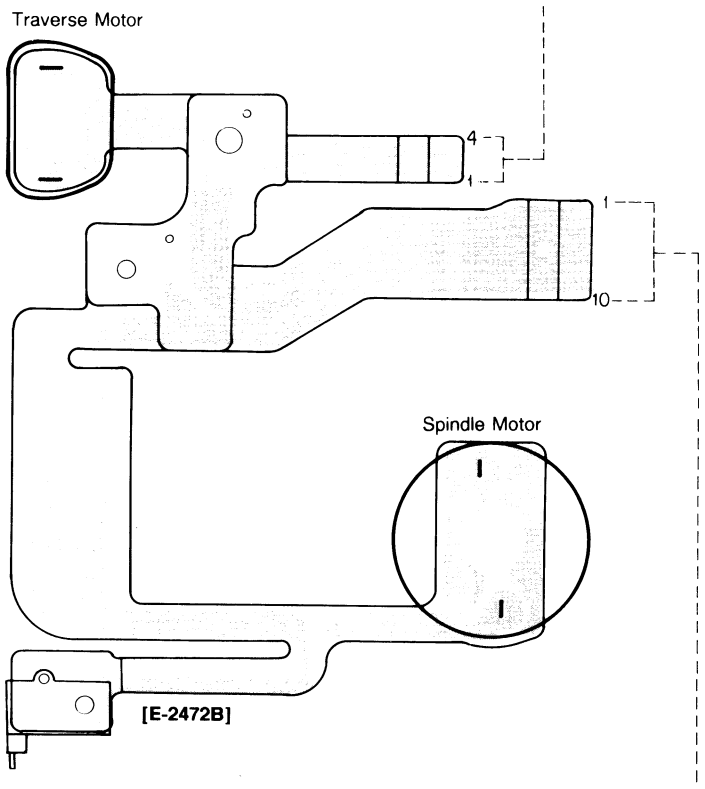


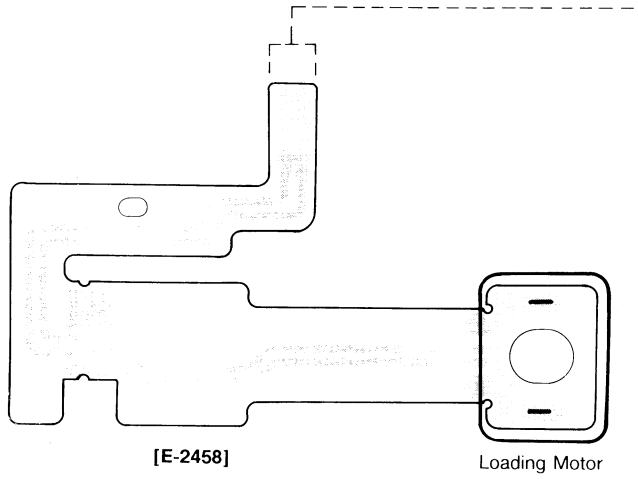

IC201
MN66501
IC301
MN66262
IC401
MN187204CYF2
IC701 YEAMXL9346FT
CN1
CN701
CN401
CN4
CN1 Elevator Motor
Traverse Moter
Spindle Moter
To Main P.C.B
E 2479Ba CJ602
E-5913Ab
E-2472B
E-5865C
/PRST
FCLK
IPFLAG
FLAG
LRCK
SMCK
SRDATA
TX
CLK GND
PC
EC
PC
CLVS
/TRON
A5V
A0ND
D5V
D0ND
LDON
VAD+
VAD-
PLAY
/RFDET
BDO
OFTR
ARF
MDATA
MLD
MCLK
D401 MA151WKTX
D402 MA151WKTX
D403 MA151ATX
D501 2SD601ITX
C205 0.0012
C201 0.1
C202 6.3V47
C203 0.1
C204 6.3V47
C303 0.1
C304 16V10
C305 0.001
C301 0.1
C302 6.3V47
C401 0.1
C402 6.3V100
C403 0.01
C405 33P
C406 33P
XL401 4.19MHz
C307 0.22
C308 0.01
C309 0.082
C310 0.22
R302 470
R303 82K
R304 47K
R307 47K
R309 470
R100 330K
R425 4.7K
R419 10K
R418 10K
R426 56K
R428 4.7K
R429 4.7K
R430 4.7K
R602 1K
R402 47K
R403 47K
R421 47K
R406 47K
R420 47K
R401 47K
R432 47K
R431 4.7K
R427 4.7K
R422 4.7K
R423 4.7K
R424 4.7K
R701 4.7K
R702 4.7K
R703 4.7K
R407 100K
R408 4.7K
R409 4.7K
R410 4.7K
R411 4.7K
R412 4.7K
R413 4.7K
R415 4.7K
R417 47K
R433 2.2K
T.LED
TEST
RDMCS
RDMSK
RDMDI
RDMDO
/FLOCK
/TLOCK
SW1
SW2
SW3
SW4
SW5
SW6
SW8
PS2
BRK
P.ON
P.DOWN
M.IN
SOM
SIM
SCKM
STOP/START
/RESET
BATT.SENSE
P.GND
CLK
CLK.GND
LRCK
SRDATA
SRCK
/PRST
P.ON
P.DOWN
BATT.5VA
BATT.5VB
BATT.GND
P.10V
P.10V
P.5V
P.GND
P.GND
MUTE
M.IN
TX
RON_MUTE
ELV(-)
ELV(+)
GND
SW3(EJ.E)
SW2(ORG)
SW1(M.IN)
TRV(-)
TRV(+)
SW8(INNER)
GND
SPN(-)
SPN(+)
+5V
+10V

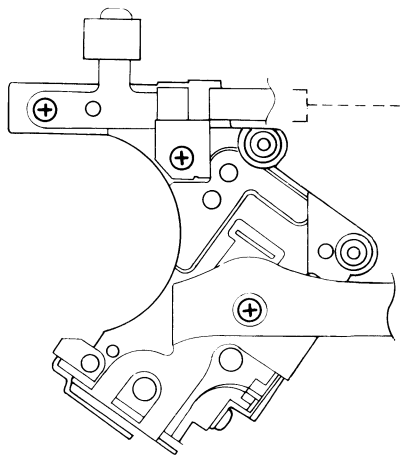
WIRING DIAGRAM / VERDHATUNG MODEL CX-DP1200EN (Servo Block)

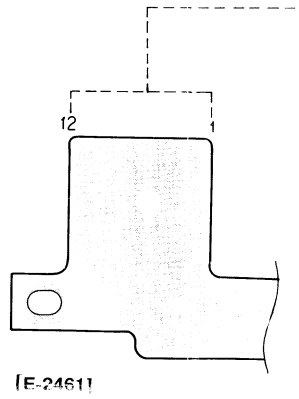


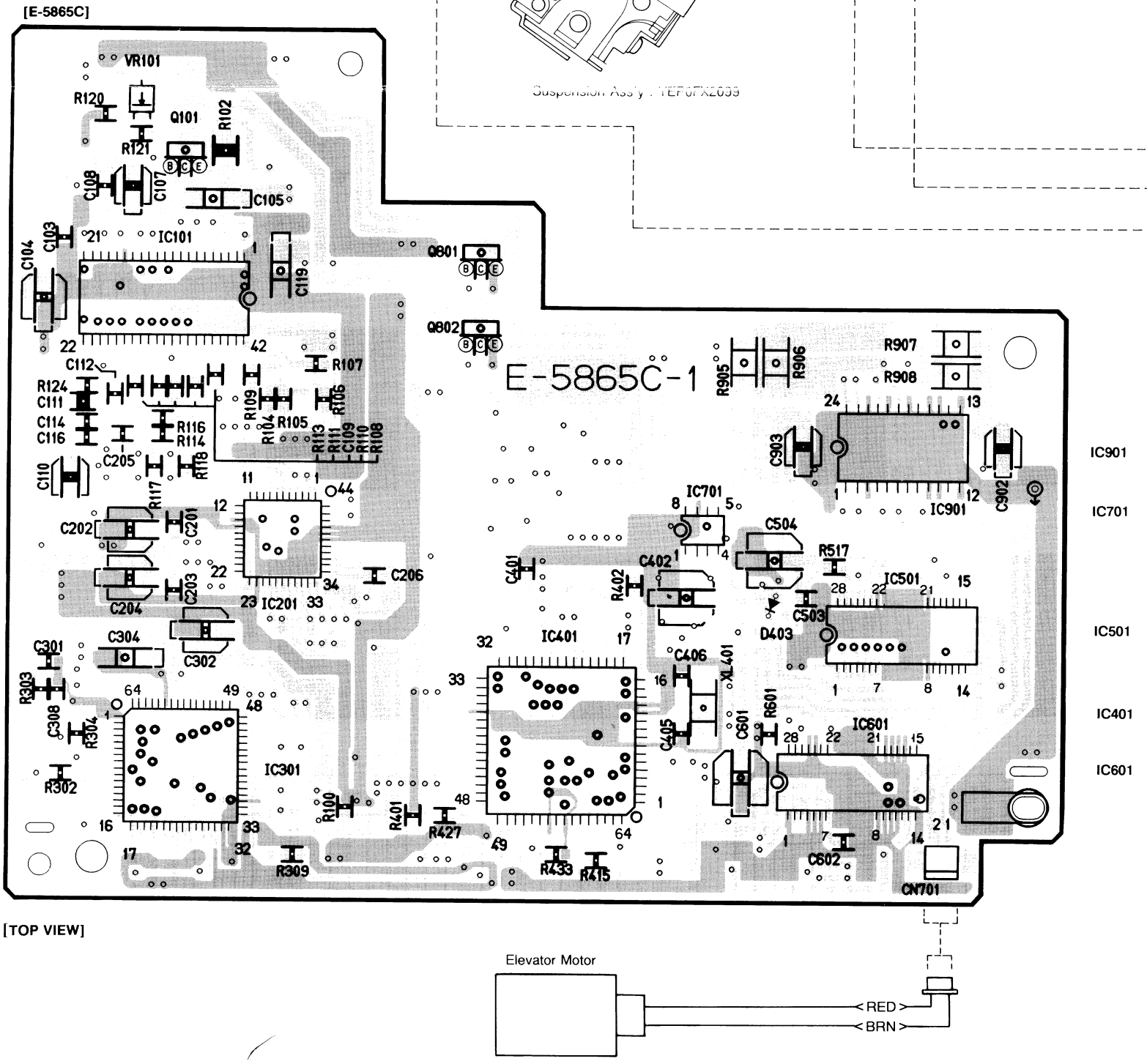


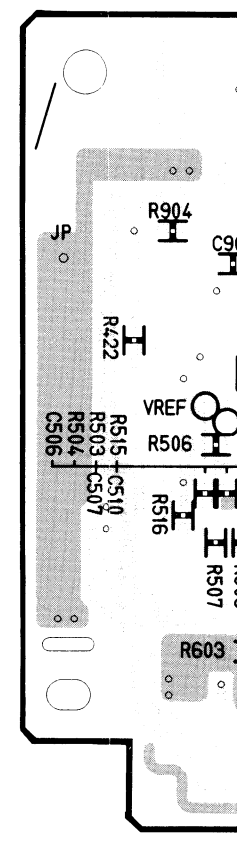




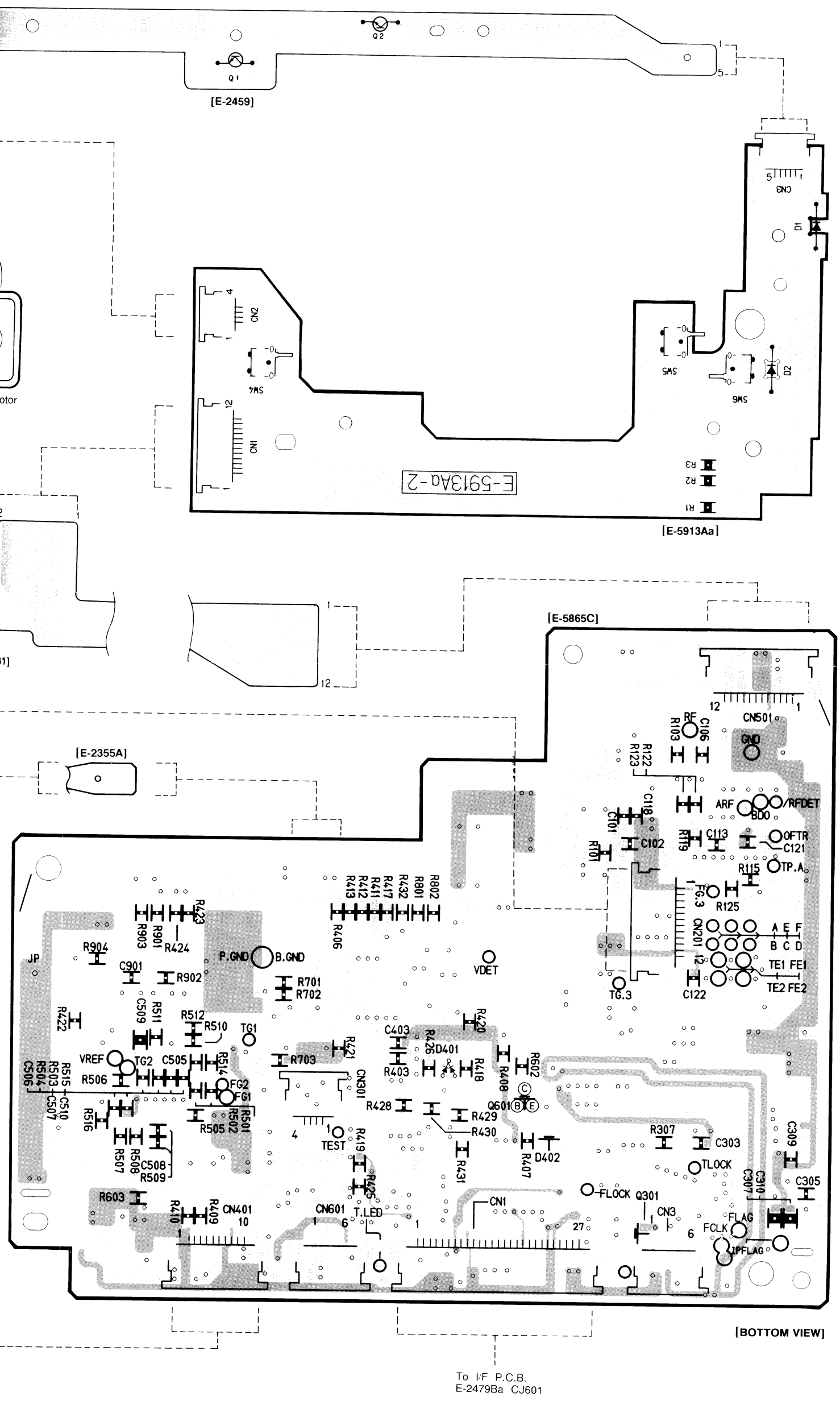








[TOP VIEW]



IC101							
1	0 V	12	0 V	23	3.9 V	34	2.4 V
2	0.1 V	13	2.5 V	24	2.5 V	35	2.5 V
3	—	14	2.5 V	25	1.0 V	36	2.5 V
4	4.9 V	15	—	26	2.5 V	37	2.5 V
5	3.8 V	16	0 V	27	0 V	38	4.9 V
6	—	17	0 V	28	2.4 V	39	2.5 V
7	2.5 V	18	0 V	29	4.9 V	40	2.5 V
8	2.8 V	19	3.5 V	30	2.7 V	41	2.5 V
9	2.4 V	20	0 V	31	2.5 V	42	2.5 V
10	4.2 V	21	4.9 V	32	2.5 V		
11	2.6 V	22	0 V	33	2.5 V		

IC501			
1	—	15	0 V
2	2.5 V	16	0 V
3	—	17	0 V
4	2.5 V	18	0 V
5	2.5 V	19	5.1 V
6	2.5 V	20	9.9 V
7	2.5 V	21	0 V
8	0 V	22	0 V
9	9.9 V	23	—
10	2.5 V	24	—
11	0 V	25	2.5 V
12	0 V	26	— V
13	0 V	27	2.5 V
14	0 V	28	— V

IC601			
1	0 V	15	—
2	4.7 V	16	—
3	5.2 V	17	0 V
4	0 V	18	0 V
5	0 V	19	0 V
6	0 V	20	0 V
7	9.9 V	21	2.5 V
8	0 V	22	0.2 V
9	0 V	23	—
10	0 V	24	0 V
11	0 V	25	0 V
12	—	26	2.5 V
13	—	27	5.0 V
14	0 V	28	5.0 V

IC701			
1	—	5	0 V
2	4.9 V	6	2.5 V
3	0 V	7	0 V
4	0 V	8	—

IC901			
1	0 V	13	0 V
2	9.8 V	14	9.8 V
3	0 V	15	0 V
4	—	16	0 V
5	9.8 V	17	9.9 V
6	0.6 V	18	0 V
7	8.9 V	19	9.8 V
8	8.0 V	20	0 V
9	0 V	21	9.8 V
10	0 V	22	0 V
11	8.9 V	23	0 V
12	0 V	24	0 V

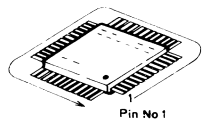
Q101	
B	3.8 V
C	1.8 V
E	4.5 V

Q601	
B	0 V
C	4.9 V
E	0.2 V

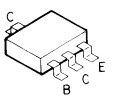
Q801	
B	0 V
C	0 V
E	0 V

Q802	
B	0 V
C	0 V
E	0 V

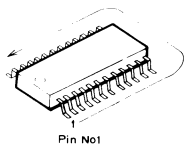
ICs & Transistors

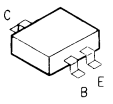


IC201	44Pin
IC301	64Pin
IC401	64Pin



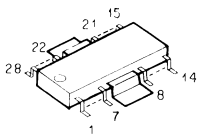
• Q101
801,
802





• Q601

IC101	42Pin
IC701	8Pin
IC901	24Pin



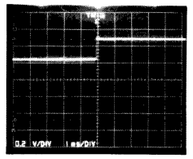
IC501	28Pin
IC601	28Pin

OPERATION OF LSI / BEDIENUNG DES LSI

■ IC401 MN187204CYF2

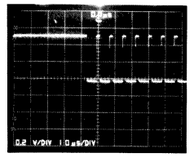
Pin No.	Port	Description	I/O	Vol. (V)
1	T.LED	Not used	—	0
2	ROMSK	EEPROM serial clock	O	0
3	ROMDI	EEPROM data	O	0
4	EMP3	Elevator motor control	O	0
5	EMP2	Elevator motor control	O	0
6	EMP1	Elevator motor control	O	0
7	PRST	D/A servo reset	O	5.1
8	NC	No connection	—	0
9	V_{DD}	+5V power supply	—	5.1
10	OSC 2	Crystal oscillator	I	2.4
11	OSC 1	Crystal oscillator	I	2.3
12	V_{SS}	Ground	—	0
13	XI	(Connecting to ground)	—	0
14	XO	Not used	—	—
15	PC1	Loading driver control	O	5.1
16	TEST	Test mode	I	5.1
17	LODI	Loading direction control	O	2.5
18	TRV	Forced traverse control	I/O	2.5
19	MUTE	Analog mute	O	0
20	MCLK	Clock for servo LSI	O	4.5
21	MLD	Data luch for servo LSI	O	5.1
22	MDATA	Data for servo LSI	O	0.3
23	STO/STA	CD operating mode	I	0
24	BATT. S	Battery detection	I	5.1
25	OFTR	Tracking servo erorr	I	0
26	BD0	Servo vibration detection	I	0
27	ROMCS	EEPROM chip select	O	0
28	PS1	Elevator hight sensor	I	4.9
29	RST	CPU reset	I	5.1
30	SCKM	Clock for I/O controller	I	5.1
31	SIM	Serial data input	I	1.5
32	SOM	Serial data output	O	2.2
33	SQCK	Clock for Q-code data	O	5.1
34	SUBQ	Q-code data	I	2.6
35	PO0	Not used	—	—
36	SYNC	Not used	—	—
37	CM	Chip mode	I	0
38	VDET	Vibration detection	I	0
39	RFDET	Servo RF detection	I	0
40	ROMDO	EEPROM data	I	2.5
41	PS3	Tray sensor	I	0.1
42	F LOCK	Focus servo lock detection	I	0
43	T LOCK	Tracking servo lock detection	I	0
44	STAT	Signal process LSI status	I	4.2
45	SENSE	Servo LSI status	I	0
46	ROMMUT	CD digital signal mute	O	5.1
47	W.DOG	Not used	—	—
48	DMUTE	DSP mute	O	0
49	P.DOWN	Power control	O	5.1
50	P.ON	Power control	O	5.1
51, 52	P82, 81	Not used	—	—
53	BRAKE	Loading motor brake control	O	0
54	PS2	Disc sensor	I	4.9
55	SW9	8/12 cm switch	I	0
56	SW8	Inside track switch	I	4.9
57	SW7	Cover open/close switch	I	0
58	SW6	Loading completion switch	I	4.9
59	SW5	Loading intermediate switch	I	4.9
60	SW4	Save completion switch	I	0
61	SW3	CD eject completion switch	I	4.9
62	SW2	Origin switch	I	4.9
63	SW1	Magazin insert	I	0
64	—	Not used	—	—

⑱ **TRV**



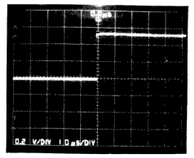
2V/DIV, 1mS/DIV

⑳ **MCLK**



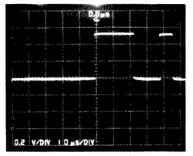
2V/DIV, 10μS/DIV

㉑ **MLD**



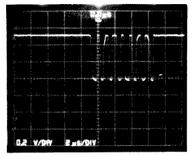
2V/DIV, 10μS/DIV

㉒ **MDATA**



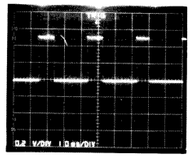
2V/DIV, 10μS/DIV

㉚ **SCKM**



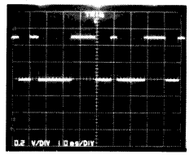
2V/DIV, 2μS/DIV

㉛ **SIM**



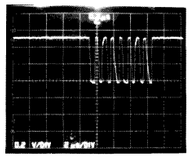
2V/DIV, 10mS/DIV

㉜ **SOM**



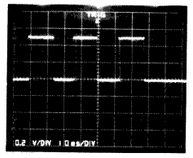
2V/DIV, 10mS/DIV

㉝ **SQCK**



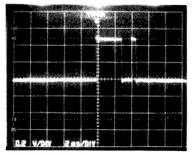
2V/DIV, 2μS/DIV

㉞ **SUBQ**



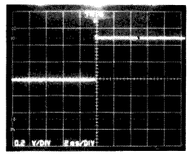
2V/DIV, 10mS/DIV

㊳ **VDET**



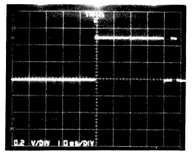
2V/DIV, 2mS/DIV

㊷ **F LOCK**

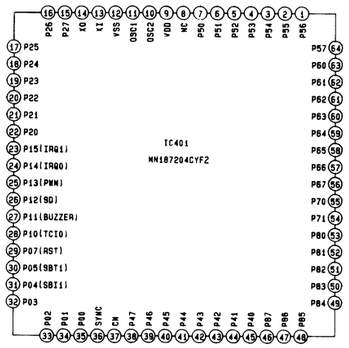


2V/DIV, 2mS/DIV

㊸ **T LOCK**

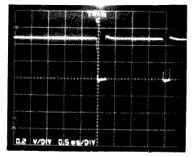


2V/DIV, 10mS/DIV



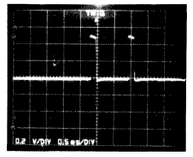
- These waveforms are measured by using ten times (×10) probe.

③ **RFDET**



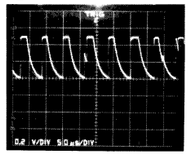
2V/DIV, 0.5mS/DIV

④ **DO**



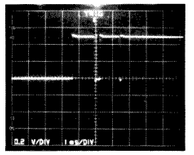
2V/DIV, 0.5mS/DIV

⑤ **OFT**



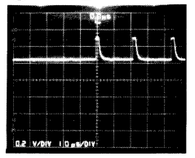
2V/DIV, 50μS/DIV

⑫ **VR1**



2V/DIV, 1mS/DIV

⑲ **TVD**

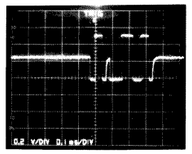


2V/DIV, 10μS/DIV

⑳ **FDO**

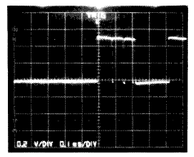
2V/DIV, 10μS/DIV

㉒ **KICK**



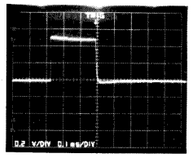
2V/DIV, 0.1mS/DIV

㉚ **SENSE**



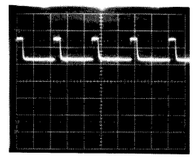
2V/DIV, 0.1mS/DIV

㊷ **VDET**



2V/DIV, 0.1mS/DIV

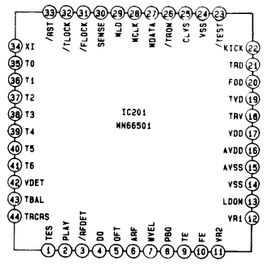
㊸ **TBAL**



2V/DIV, 10μS/DIV

■ IC201 MN66501

Pin No.	Port	Description	I/O	Vol. (V)
1	TES	Tracking error shunt signal	O	0
2	PLAY	CD play	O	4.9
3	RFDET	RF detection	I	0
4	DO	Drop out signal	I	0
5	OFT	Off track signal	I	0
6	ARF	RF signal input	I	2.3
7	WVEL	Not used	—	—
8	PBO	Potention buffer signal	I	2.4
9	TE	Tracking error signal	I	2.4
10	FE	Focus error signal	I	2.4
11	VR2	Reference voltage	I	1.0
12	VR1	Reference voltage	I	3.9
13	LCON	Laser on/off control	O	4.9
14	V_{SS}	Ground (Digital)	—	0
15	AV_{SS}	Ground (Analog)	—	0
16	AV_{DD}	+5V power supply	—	4.9
17	V_{DD}	+5V power supply	—	4.9
18	TRV	Traverse control	O	2.5
19	TVD	Traverse drive	O	2.5
20	FOD	Focus drive	O	2.4
21	TRD	Tracking drive	O	2.4
22	KICK	Kick pulse output	O	2.5
23	TEST	Test terminal	I	4.9
24	V_{SS}	Ground	—	0
25	CLVS	Spindle servo sense	I	4.9
26	TRON	Tracking servo control	O	0
27	MDATA	MPU command data	I	0.3
28	MCLK	MPU command clock	I	4.5
29	MLD	MPU command load	I	5.1
30	SENSE	Sense signal	O	0
31	FLOCK	Focus servo lock	O	0
32	TLOCK	Tracking servo lock	O	0
33	RST	Reset input	I	5.1
34	XI	Clock input	I	2.2
35~38	T0~3	(Open)	—	—
39~41	T4~6	(Connecting to ground)	—	0
42	VDET	Vibration detection	I	0
43	TBAL	Tracking balance adjust	O	2.8
44	TRCRS	Track cross signal	I	4.9



WIRING DIAGRAM / VERDHATUNG MODEL CX-DP1200EN (I/F Block)

Q1	
B	4.9 V
C	0 V
E	0 V

Q2	
B	5.5 V
C	4.9 V
E	11.5 V

Q601	
B	4.5 V
C	0 V
E	0 V

Q602	
B	4.9 V
C	0 V
E	4.9 V

Q701	
B	11.2 V
C	11.9 V
E	11.9 V

Q702	
B	4.9 V
C	0.2 V
E	0 V

Q704	
B	5.5 V
C	12.4 V
E	4.9 V

IC701	
1	11.9 V
2	0 V
3	9.9 V

IC702	
1	11.9 V
2	0 V
3	4.9 V

IC703	
1	10.9 V
2	0 V
3	5.0 V

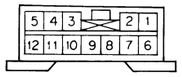
IC704	
1	4.9 V
2	2.0 V
3	0 V
4	—
5	4.9 V

IC201			
1	5.8 V	5	5.7 V
2	5.8 V	6	5.8 V
3	5.8 V	7	5.8 V
4	0 V	8	10.7 V

IC601			
1	3.8 V	8	—
2	0.8 V	9	0 V
3	0 V	10	—
4	4.9 V	11	0 V
5	0 V	12	0 V
6	4.9 V	13	4.9 V
7	0 V	14	4.9 V

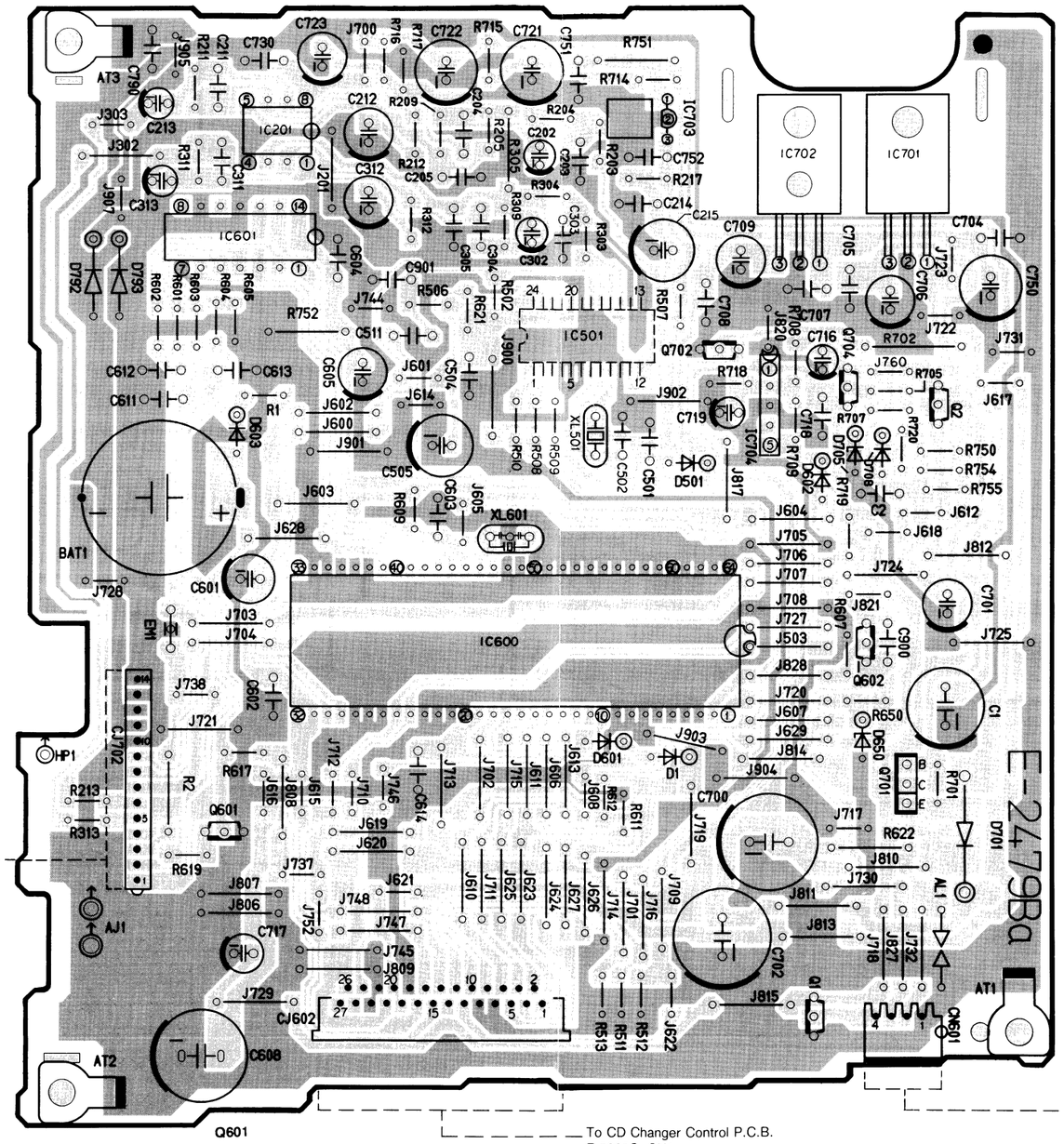
IC501							
1	2.4 V	7	5.3 V	13	0 V	19	0 V
2	2.4 V	8	2.6 V	14	0 V	20	5.3 V
3	2.3 V	9	2.3 V	15	3.0 V	21	5.3 V
4	0 V	10	0 V	16	5.4 V	22	5.3 V
5	0 V	11	5.4 V	17	5.3 V	23	—
6	0 V	12	3.0 V	18	—	24	2.3 V

CN703 12P Connector

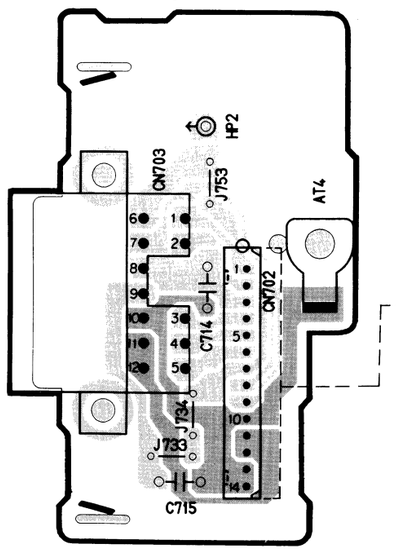


1. Remocon Data Input (REMCON)
2. Changer Strobe Output (STRB)
3. Format Select (COM-SEL)
4. Audio Left ⊕ Output (AFL⊕)
5. Audio Right ⊕ Output (AFR⊕)
6. Changer Data Output (CH-DATA)
7. Changer Clock Output (CH-CLK)
8. A/D Port Input (A/D)
9. Power Supply, ACC ⊕ (ACC)
10. Ground (GND)
11. Audio Left ⊖ Output (AFL⊖)
12. Audio Right ⊖ Output (AFR⊖)

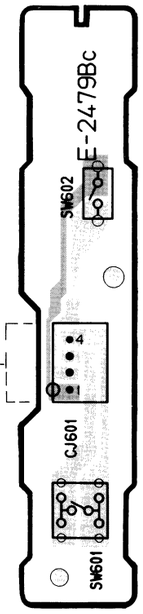
[E-2479Ba]



[E-2479Bb]



[E-2479Bc]

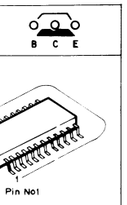


SW601 : Reset Switch

SW602 : Eject Switch

To CD Changer Control P.C.B. E-5865C CN1

ICs & Transistors



IC201	8Pin
IC600	64Pin
IC601	14Pin

IC501	24Pin

IC701	3Pin
IC702	3Pin

IC704	5Pin

IC703	3Pin

• Q701

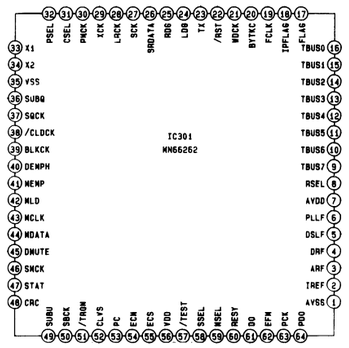
• Other transistors

OPERATION OF LSI

■ IC301 MN66262

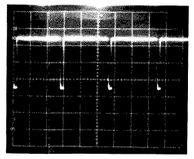
Pin No.	Port	Description	I/O	Vol. (V)
1	AV_{SS}	Ground	—	0
2	IREF	Reference current input	I	1.6
3	ARF	RF signal input	I	2.4
4	DRF	Not used	—	—
5	DSLF	DSL loop filter	O	2.4
6	PLLF	PLL loop filter	I/O	2.1
7	AV_{DD}	+5V power supply	—	4.9
8	RSEL	RF polarity	I	4.9
9~16	TBUS7~0	(Open)	—	—
17	FLAG	Flag output	O	0
18	IPFLAG	Interpolation flag output	O	0
19	FCLK	Flame clock	O	0
20	BYTCK	Byte clock	O	4.6
21	WDCK	Not used	—	—
22	RST	Reset input	I	5.1
23	TX	Digital audio I/F	O	2.4
24	LDG	Not used	—	—
25	RDG	Not used	—	—
26	SRDATA	Serial data	O	0
27	SCK	Clock for SRDATA	O	2.4
28	LRCK	L, R discriminating	O	2.4
29	XCK	Crystal oscillator	O	2.2
30	PMCK	Not used	—	—
31	CSEL	Test terminal	I	0
32	PSEL	Test terminal	I	0
33	X1	Crystal oscillator	I	2.5
34	X2	Not used	—	—
35	V_{SS}	Ground	—	0
36	SUB Q	Sub code Q output	O	2.2
37	SQCK	Sub code Q clock	I	5.1
38	CLDCK	Not used	—	—
39	BLKCK	Not used	—	—
40	DEMPH	De-emphasis control	O	4.9
41	MEMP	Emphasis signal	I	4.9
42	MLD	MPU command load	I	5.1
43	MCLK	MPU command clock	I	4.5
44	MDATA	MPU command data	I	0.3

Pin No.	Port	Description	I/O	Vol. (V)
45	DMUTE	Mute input	I	0
46	SMCK	Not used	—	—
47	STAT	Status signal	O	4.1
48	CRC	Not used	—	—
49	SUBC	Not used	—	—
50	SBCK	Clock for SUBC	I	5.0
51	TRON	Tracking servo on	I	0
52	CLVS	Spindle servo sync. status	O	5.0
53	PC	Spindle motor control	O	0
54	ECM	Spindle motor drive	O	2.5
55	ECS	Spindle motor drive	O	2.5
56	V_{DD}	+5V power supply	—	5.0
57	TEST	Test terminal	I	5.0
58	SSEL	SUBQ output mode	I	5.0
59	MSEL	Not used	—	—
60	RESY	Not used	—	—
61	DO	Drop out signal	I	O
62	EFM	Not used	—	—
63	PCK	Not used	—	—
64	PDO	Not used	—	—



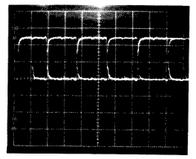
- These waveforms are measured by using ten times (×10) probe.

⑳ **BYTCK**



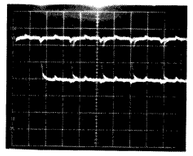
2V/DIV, 2μS/DIV

㉓ **TX**



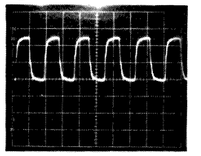
2V/DIV, 0.2μS/DIV

㉖ **SRDATA**



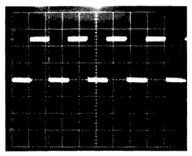
2V/DIV, 0.2μS/DIV

㉗ **SCK**



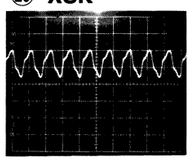
2V/DIV, 0.2μS/DIV

㉘ **LRCK**



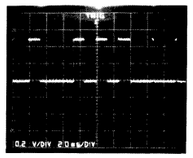
2V/DIV, 10μS/DIV

㉙ **XCK**



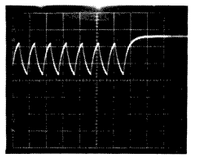
2V/DIV, 50nS/DIV

㊱ **SUBQ**



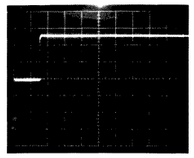
2V/DIV, 20mS/DIV

㊲ **SQCK**



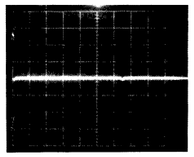
2V/DIV, 50μS/DIV

㊳ **CLDCK**



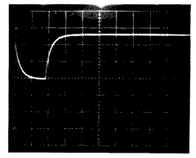
2V/DIV, 1μS/DIV

㊴ **BLKCK**



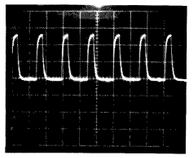
2V/DIV, 2mS/DIV

㊷ **MLD**



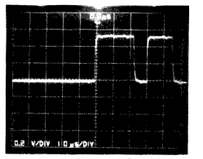
2V/DIV, 1μS/DIV

㊸ **MCLK**



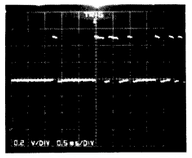
2V/DIV, 5μS/DIV

㊹ **MDATA**



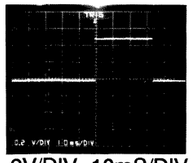
2V/DIV, 10μS/DIV

㊾ **SUBC**



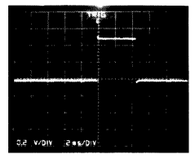
2V/DIV, 0.5mS/DIV

㊶ **TRON**



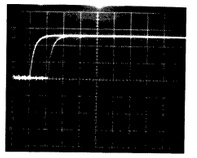
2V/DIV, 10mS/DIV

㊷ **CLVS**



2V/DIV, 2mS/DIV

㊹ **ECM**



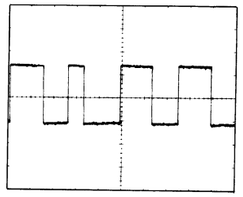
1V/DIV, 1μS/DIV

OPERATION OF LSI

■ IC600 YEAM75112198

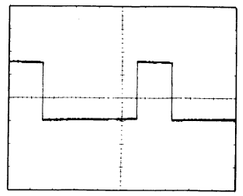
Pin No.	Port	Description	I/O	Vol. (V)
1	A/D	A/D Key input	I	4.0
2	EJECT	Eject switch input	I	0
3~9	—	Not used (Connecting to ground)	—	0
10	MUTE	Mute input	I	0
11~13	—	No connection	—	—
14	STA/STP	CD changer sleep request	O	0
15	SI	CD changer serial data input	I	2.0
16	SO	CD changer serial data output	O	1.3
17	SCK	Clock for serial data	O	4.9
18	ACC DET	ACC level detection	I	4.9
19	RST OUT	CD changer CPU reset	O	4.9
20~23	—	Not used (Connecting to ground)	—	0
24	P. DOWN	Changer servo power detection	I	4.9
25	P. ON	Changer power detection	I	4.9
26~28	—	Not used (Connecting to ground)	—	0
29	RSTB	MASH reset output	O	5.3
30	EMPH	Emphasis control	O	5.3
31	NC	No connection	—	4.9
32	V_{DD}	+5V power supply	—	4.9
33	G MUTE	Not used	—	—
34~38	—	Not used (Connecting to ground)	—	0
39	COM SEL	Format status	I	0
40	REMCON	Remocon data input	I	4.9
41	—	No connection	—	—
42	STRB	Changer data strobe	O	0
43	DATA	Changer data	O	3.7
44	CLK	Clock for changer data	O	4.9
45	RESET	System reset	I	4.9
46	X2	Crystal oscillator	—	2.5
47	X1	Crystal oscillator	—	2.3
48~63	—	Not used (Connecting to ground)	—	0
64	V_{SS}	Ground	—	0

⑮ SI



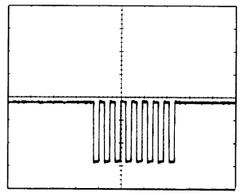
2V/DIV, 5mS/DIV

⑯ SO



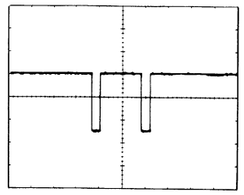
2V/DIV, 5mS/DIV

⑰ SCK



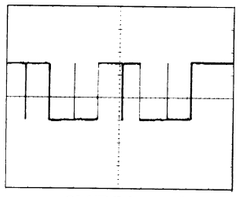
2V/DIV, 2μS/DIV

㊵ RIMO



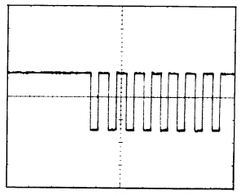
2V/DIV, 0.5mS/DIV

㊸ DATA



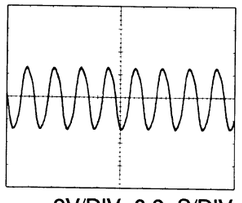
2V/DIV, 2mS/DIV

㊹ CLK



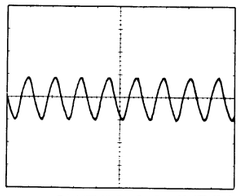
2V/DIV, 20μS/DIV

㊻ X2

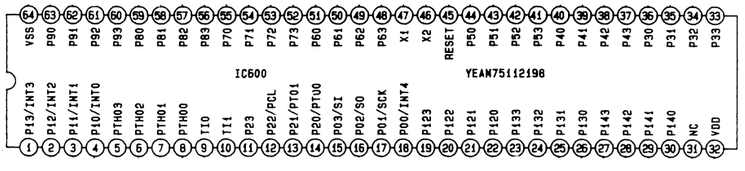


2V/DIV, 0.2μS/DIV

X1



2V/DIV, 0.2μS/DIV



ALIGNMENT INSTURUCTIONS / ABGLEICH ANLEITUNG

■ Measuring Instruments and Special Tools

- Test disc : SZZP1014F (CDT-002)
- Oscilloscope

■ Best Eye (PD Balance) Adjustment

1. Connect hotline of probe to test point TP (ARF) on servo P. C. B. and ground of probe to test point TP (V. REF)

< Oscilloscope setting >

VOLT 200mV
SWEEP 0.5μsec
Input coupling ..... AC

2. Switch the player power ON, and play the 1kHz (track 1) on test disc (SZZP1014F : CDT-002).
3. Adjust VR101 until the RF signal eye pattern amplitude is maximized.

■ Meßinstrumente und Spezialwerkzeuge

- Test-Disc : SZZP1014F (CDT-002)
- Oszilloskop

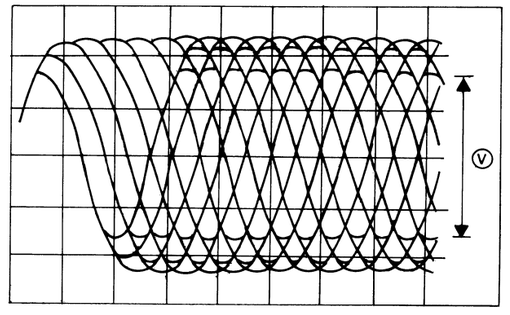
■ Bestaugen (PD-Balance)-Einstellung

1. Die spannungsführende Leitung der Sonde an den Meßpunkt TP (ARF) der Servo-Leiterplatte und die Erdklemme der Sonde an den Meßpunkt TP (V. REF) anschließen.

< Oszilloskop-Einstellung >

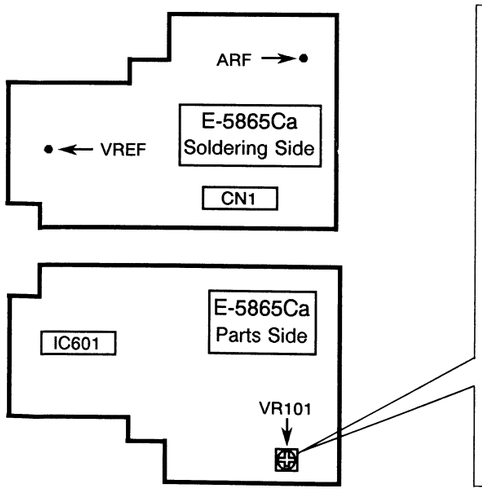
VOLT 200mV
ZEITABLENKCESCHWINDIGKEIT . 0.5μsec
Eingangskopplung ..... Wechselstrom

2. Den CD-Spieler einschalten, und die 1kHz-Spur (Spur Nr. 1) auf der Test-Disc (SZZP1014F : CDT-002) wiedergeben.
3. VR101 so lange verstellen, bis sich die maximale HF-Signal-Augenmusteramplitude ergibt.

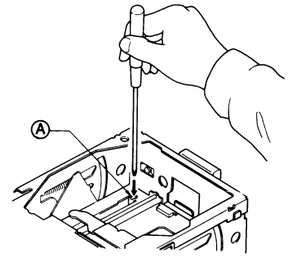


Ⓥ Maximize the amplitude
Die Amplitude auf Maximum einstellen.

ALIGNMENT POINTS / ABGLEICHPUNKTE



- Insert the screwdriver in the hole Ⓐ shown in the figure below, and carry out the required adjustments.
- Einen Schraubenzieher in das Loch Ⓐ stecken, das in der Abbildung unten gezeigt wird, und die erforderlichen Einstellungen vornehmen.



ELEVATOR ASS'Y SHAFT ADJUSTING PROCEDURE

1. Adjusting Jig

A unit capable of controlling the CD changer.

2. Check

1) Insert the CD in the slot #6 of the disk magazine, and load it.

2) When doing so, make sure that the center of the elevator chassis assembly shaft is aligned with the long line marked at the vicinity of the center of the rear chassis assembly.

3. Adjustments to be made when the positions are not properly aligned.

1) Loosen the screw Ⓐ of the elevator position detector plate.

2) Move the elevator position detector plate up/down for the center of the elevator chassis assembly shaft to get aligned with the long line marked at the vicinity of the center of the rear chassis assembly.

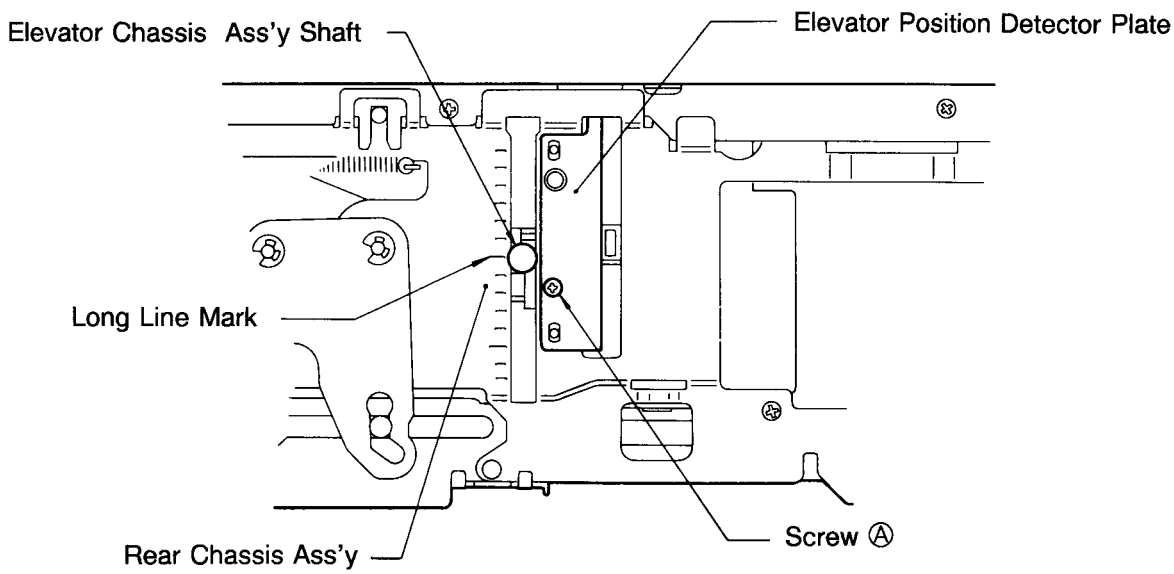
- When the center of the elevator chassis assembly shaft is displaced upwards.
  Move the elevator position detector plate down, as much as the extent of the said displacement.
- When the center of the elevator chassis assembly shaft is displaced downwards.
  Move the elevator position detector plate up, as much as the extent of the said displacement.

3) Tighten the screw Ⓐ, and eject the disk magazine.

4) Set the disk magazine once again, and load the 6th CD.

5) Make sure that the center of the elevator chassis assembly is aligned with long line marked at the vicinity of the center of the rear chassis assembly.

6) Repeat the adjustment procedures described in the steps 3-1) to 3-5) above as many times as necessary to obtain the correct position.



EINSTELLVERFAHREN FÜR DIE WELLE DER LIFTCHASSISEINHEIT

1. Einstellvorrichtung

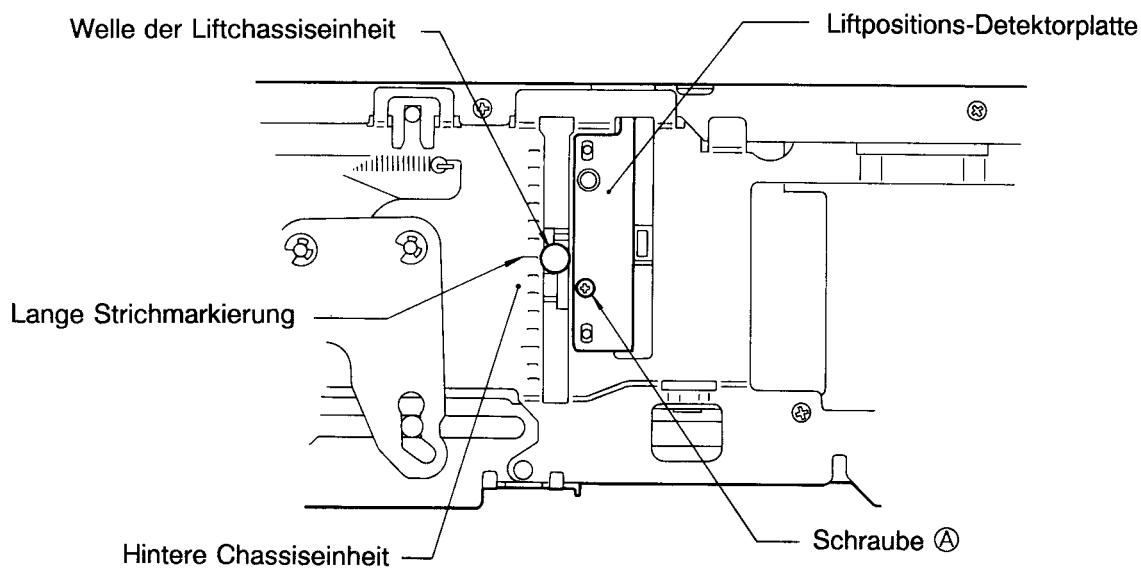
Eine Vorrichtung, die in der Lage ist, den CD-Wechsler zu steuern.

2. Überprüfung

1) Die Compact-Disc in den Schacht Nr. 6 des Disc-Magazins einsetzen und diese laden.
2) Dabei sicherstellen, daß die Mitte der Welle der Liftchassiseinheit auf die lange Strichmarkierung in der Nähe der Mitte der hinteren Chassiseinheit ausgerichtet ist.

3. Einstellungen, die bei falscher Ausrichtung der Positionen vorzunehmen sind :

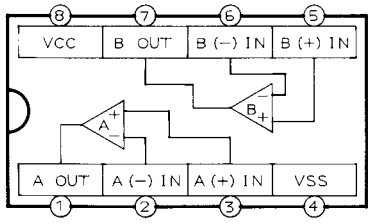
1) Die Schraube Ⓐ der Liftpositions-Detektorplatte lösen.
2) Die Liftpositions-Detektorplatte nach oben/unten bewegen, um die Mitte der Welle der Liftchassiseinheit auf die lange Strichmarkierung in der Nähe der Mitte der hinteren Chassiseinheit auszurichtet.
   - Wenn die Mitte der Welle der Liftchassiseinheit nach oben versetzt ist :
     Die Liftpositions-Detektorplatte um das Ausmaß der unten erwähnten Versetzung nach unten bewegen.
   - Wenn die Mitte der Welle der Liftchassiseinheit nach unten versetzt ist :
     Die Liftpositions-Detektorplatte um das Ausmaß der oben erwähnten Versetzung nach oben bewegen.
3) Die Schraube Ⓐ anziehen, und das Disc-Magazin auswerfen.
4) Das Disc-Magazin erneut einsetzen, und die 6. Compact-Disc laden.
5) Sicherstellen, daß die Mitte der Welle der Liftchassiseinheit auf die lange Strichmarkierung in der Nähe der Mitte der hinteren Chassiseinheit ausgerichtet ist.
6) Die in den obigen Schritten 3-1) bis 3-5) beschriebenen Einstellverfahren so oft wiederholen, wie dies zum Erreichen der richtigen Position erforderlich ist.



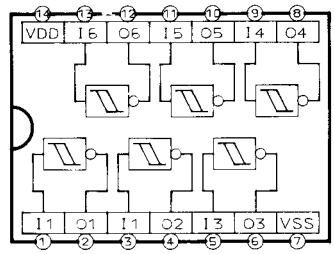
IC BLOCK DIAGRAM

<E-2479B>

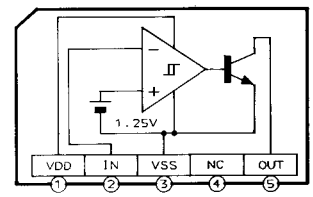
• IC201 YEAMM5218AP



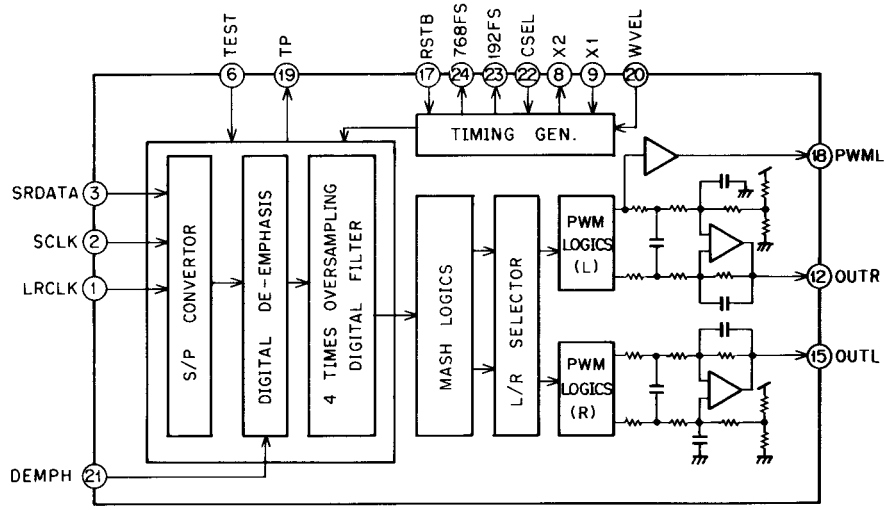
• IC601 MN4584B



• IC704 YEAMM51945AL

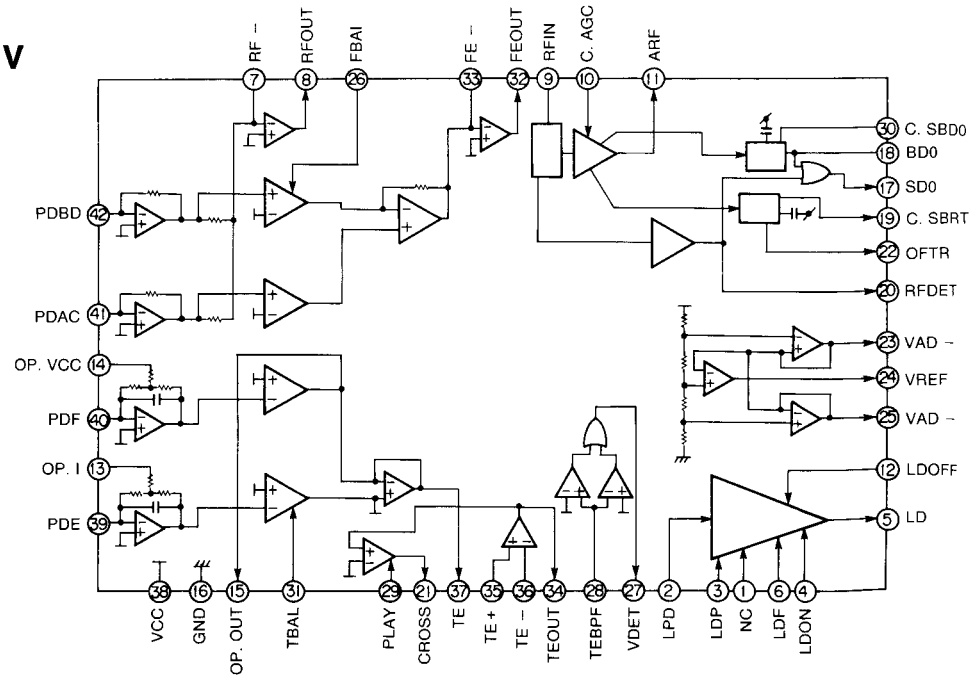


• IC501 MN64752

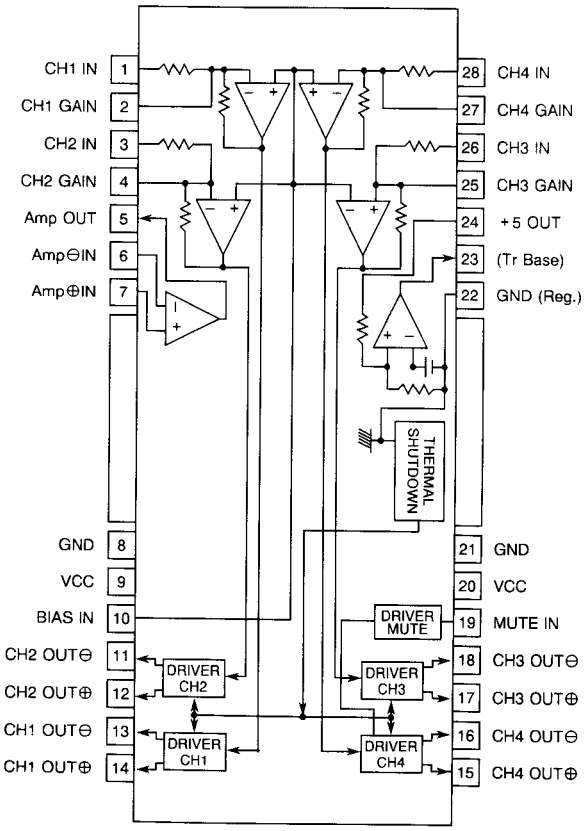


<E-5865C>

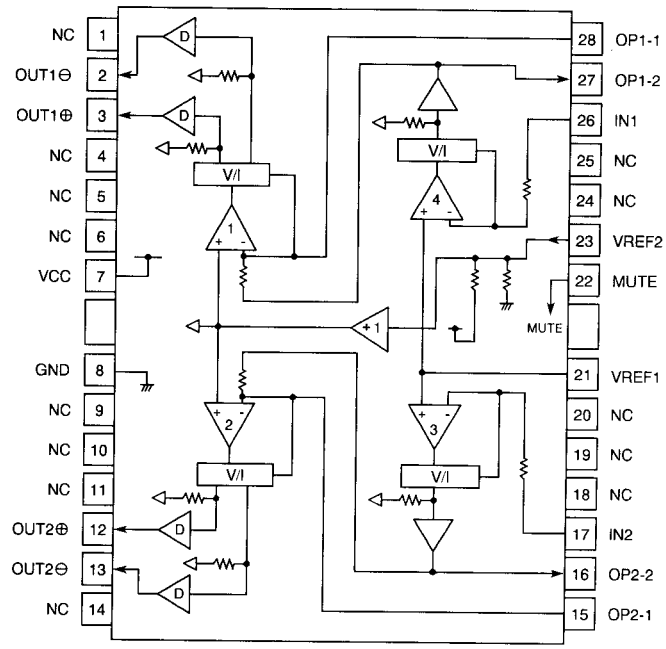
• IC101 AN8801SCE1V



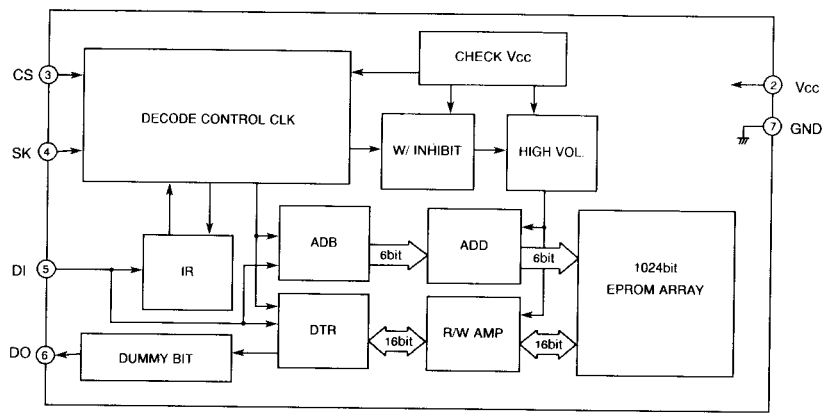
● IC501 YEAMBA6399FP



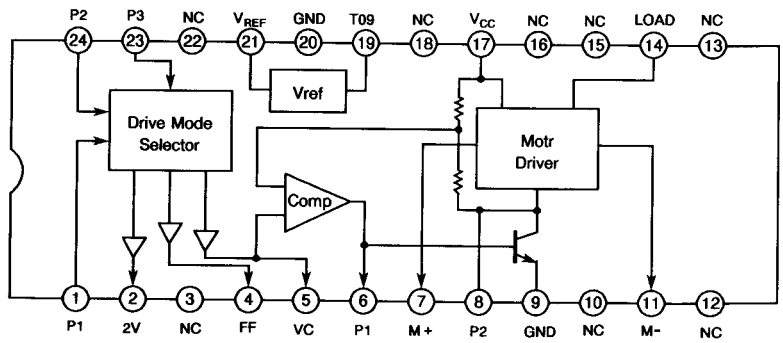
● IC601 YEAMBA6295AF



● IC901 AN6609NSE1



● IC701 YEAMXL9346FT



Replacement Parts List
Model NO. CX-DP1200EN

NOTES :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
ICs & TRANSISTORs					
IC201	YEAMM5218AP		IC	1	
IC501	MN64752		IC	1	
IC600	YEAM75112198		IC	1	
IC601	MN4584B		IC	1	
IC701	YEAMPC2410HF		IC	1	
IC702	AN7805		IC	1	
IC703	YEAMPC78L05T		IC	1	
IC704	YEAMM51945AL		IC	1	
Q1	YEANDTC144ST		Transistor	1	
Q2	YEAN2SD1020T		Transistor	1	
Q601	YEANDTC144ST		Transistor	1	
Q602	YEANDTA144ST		Transistor	1	
Q701	2SB1398TA		Transistor	1	
Q702	YEANBA1A4PT		Transistor	1	
Q704	YEAN2SD1020T		Transistor	1	
DIODEs					
D1, 501	MA165TA		Diode	2	
D601, 602	MA165TA		Diode	2	
D603	MA700TA		Diode	1	
D650	MA4051TA		Diode	1	
D701	YEADDSA3A2C		Diode	1	
D705	YEADRD56JS2		Diode	1	
D708	MA165TA		Diode	1	
D792, 793	YEADDSM1A2T7		Diode	2	
CAPACITORs					
C1	ECEA1CU471B		Electrolytic, 470MFD 16WV	1	
C2	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C202	ECEA1EK4R7I		Electrolytic, 4.7MFD 25WV	1	
C203	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C204	ECQB1H392JF4		Plastic Film, 0.0039MFD 50WV	1	
C205	ECQB1H332JF4		Plastic Film, 0.0033MFD 50WV	1	
C211	YECCP1H220JM		Ceramic, 22PF 50WV	1	
C212	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C213	ECEA1CKS220I		Electrolytic, 22MFD 16WV	1	
C214	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C215	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C302	ECEA1EK4R7I		Electrolytic, 4.7MFD 25WV	1	
C303	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C304	ECQB1H392JF4		Plastic Film, 0.0039MFD 50WV	1	
C305	ECQB1H332JF4		Plastic Film, 0.0033MFD 50WV	1	
C311	YECCP1H220JM		Ceramic, 22PF 50WV	1	
C312	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C313	ECEA1CKS220I		Electrolytic, 22MFD 16WV	1	
C501, 502	YECCP1H220JM		Ceramic, 22PF 50WV	2	
C504	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C505	ECEA0JKS331I		Electrolytic, 330MFD 6.3WV	1	
C511	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C601	ECEA0JK221I		Electrolytic, 220MFD 6.3WV	1	
C602	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C603	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C604	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C605	ECEA0JKS101I		Electrolytic, 100MFD 6.3WV	1	
C608	YEECFYH0H223		Electrolytic, 0.022FD 5WV	1	
C611 to 613	ECQB1H102JF4		Plastic Film, 0.001MFD 50WV	3	
C614	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C700	ECA1CSS102YB		Electrolytic, 1000MFD 16WV	1	
C701	ECEA1CK101I		Electrolytic, 100MFD 16WV	1	
C702	ECA1CSS102YB		Electrolytic, 1000MFD 16WV	1	
C704	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C705	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C706	ECEA1CKS470I		Electrolytic, 47MFD 16WV	1	
C707	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C708	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C709	ECEA0JKS101I		Electrolytic, 100MFD 6.3WV	1	
C714, 715	YECCP1E103KB		Ceramic, 0.01MFD 25WV	2	
C716	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	1	
C717	ECA0JM471I		Electrolytic, 470MFD 6.3WV	1	
C718	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C721, 722	ECEA1CKS101I		Electrolytic, 100MFD 16WV	2	
C723	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C730	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C750	ECEA1CKS101I		Electrolytic, 100MFD 16WV	1	
C751, 752	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	2	
C790	YECCP1E103KB		Ceramic, 0.01MFD 25WV	1	
C900	ECQB1H102JF4		Plastic Film, 0.001MFD 50WV	1	
C901	YECCP1H220JM		Ceramic, 22PF 50WV	1	
EM1	YECCL55S222T		Noise Filter, 2200PF 100WV	1	

RESISTORs

R1	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R2	ERD25TJ220		Carbon, 22 ohms 0.25W	1	
R203, 204	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R205	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R209, 211	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R212	ERDS2TJ122		Carbon, 1.2k ohms 0.25W	1	
R213	ERDS2TJ561		Carbon, 560 ohms 0.25W	1	
R217	ERDS2TJ470		Carbon, 47 ohms 0.25W	1	
R303, 304	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R305	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R309, 311	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R312	ERDS2TJ122		Carbon, 1.2k ohms 0.25W	1	
R313	ERDS2TJ561		Carbon, 560 ohms 0.25W	1	
R502	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R506	ERDS2TJ271		Carbon, 270 ohms 0.25W	1	
R507	ERDS2TJ180		Carbon, 18 ohms 0.25W	1	
R508 to 510	ERDS2TJ470		Carbon, 47 ohms 0.25W	3	
R511 to 513	ERDS2TJ104		Carbon, 100k ohms 0.25W	3	
R601 to 604	ERDS2TJ102		Carbon, 1k ohms 0.25W	4	
R605	ERDS2TJ154		Carbon, 150k ohms 0.25W	1	
R607	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R609	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R611, 612	ERDS2TJ473		Carbon, 47k ohms 0.25W	2	
R617	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R619	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R621	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R622	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R650	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R701	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R702	ERG1SJ331		Metal Oxid, 330 ohms 1W	1	
R705	ERDS2TJ680		Carbon, 68 ohms 0.25W	1	
R707	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R708	ERDS2TJ334		Carbon, 330k ohms 0.25W	1	
R709	ERDS2TJ824		Carbon, 820k ohms 0.25W	1	
R714	ERDS2TJ820		Carbon, 82 ohms 0.25W	1	
R715	ERDS2TJ680		Carbon, 68 ohms 0.25W	1	
R716	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R717	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R718	ERDS2TJ563		Carbon, 56k ohms 0.25W	1	
R719	ERDS2TJ182		Carbon, 1.8k ohms 0.25W	1	
R720	ERDS2TJ470		Carbon, 47 ohms 0.25W	1	
R750	ERDS2TJ1R0		Carbon, 1.0 ohm 0.25W	1	
R751	ERDS1FJ330		Carbon, 33 ohms 0.5W	1	
R752	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R754, 755	ERDS2TJ1R0		Carbon, 1.0 ohm 0.25W	2	
CONNECTORs					
AE1	YEAE012245		Connector, 24P flat	1	
CJ601	YEAE012284		Connector, 4P	1	
CJ602	YEAESLW27R1		Connector, 27P	1	
CJ702	YEAE012255		Connector, 14P	1	
CN601	YEAEM2004L		Connector, 4P	1	
CN702	YEAEM2014S		Connector, 14P	1	
CN703	YEAE011700		Connector, 12P	1	
SWITCHEs					
SW601	YEAS09177A		Switch	1	
SW602	YEAS09252		Switch	1	
CRYSTALs					
XL501	YEXLCSA169MX		Crystal OSC	1	
XL601	YEXLCST419MG		Crystal OSC	1	
PRINTING					
	YEFM282224		Instruction Book	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
INSTALLATION PART					
1	YEJV12071		Hex. Bolt, 5mm×10mm	4	
2	YEJTJ2039		Tapping Screw, 6mm×20mm	4	
3	YEFG012424		Base Brakect	2	
4	XNG5GFZ		Hex. Nut, 5mm	4	
5	XWA5FZ		Spring Washer, 5mm	4	
6	XWG5FZ		Flat Washer, 5mm	4	
7	YEFG02772B		Mounting Brakect	2	
8	YEFX999960		Adhesive Rubber	1	
	YEAJ071016		Extention Cord (DIN/RCA)	1	
	YEAJ09271		Ground Lead	1	
	YEP9FZ2361		DIN Adaptor Cord	1	
	YEP9FZ2349		Magazine	1	
MISCELLANEOUS					
AL1	YEAL02007T		Neon Lamp	1	
BAT1 (2-B)	CR2032-1HF1		Battery	1	
AJ1	YEAJ09302		Wire	1	
1 (2-E)	YEFA031302A		Upper Cover	1	
2 (3-A)	YEFA05567		Bottom Cover	1	
3 (1-C)	YEFA09417		Side Plate (L)	1	
4 (4-E)	YEFA09418		Side Plate (R)	1	
5 (4-C)	YEFC024283		Escutcheon	1	
6 (1-B)	YEFF01761		Heat Sink	1	
7 (1-F)	YEFX9991265		Connector Cover	1	
8 (1-D) (4-E)	YEFX0051863B		Spring	2	
9	YEFX9991290A		Protection Sheet	4	
10 (1-F)	YEAT03405A		Earth Terminal	1	
11	YEAT03346A		Terminal	4	
12 (2-B) (2-F)	YEAT03324		Clamp Wire	2	
13	YEP0PT2479B0		PCB w/Component	1	RTL
14 ⚠	YEJT03033		Screw, 3mm×6mm	1	

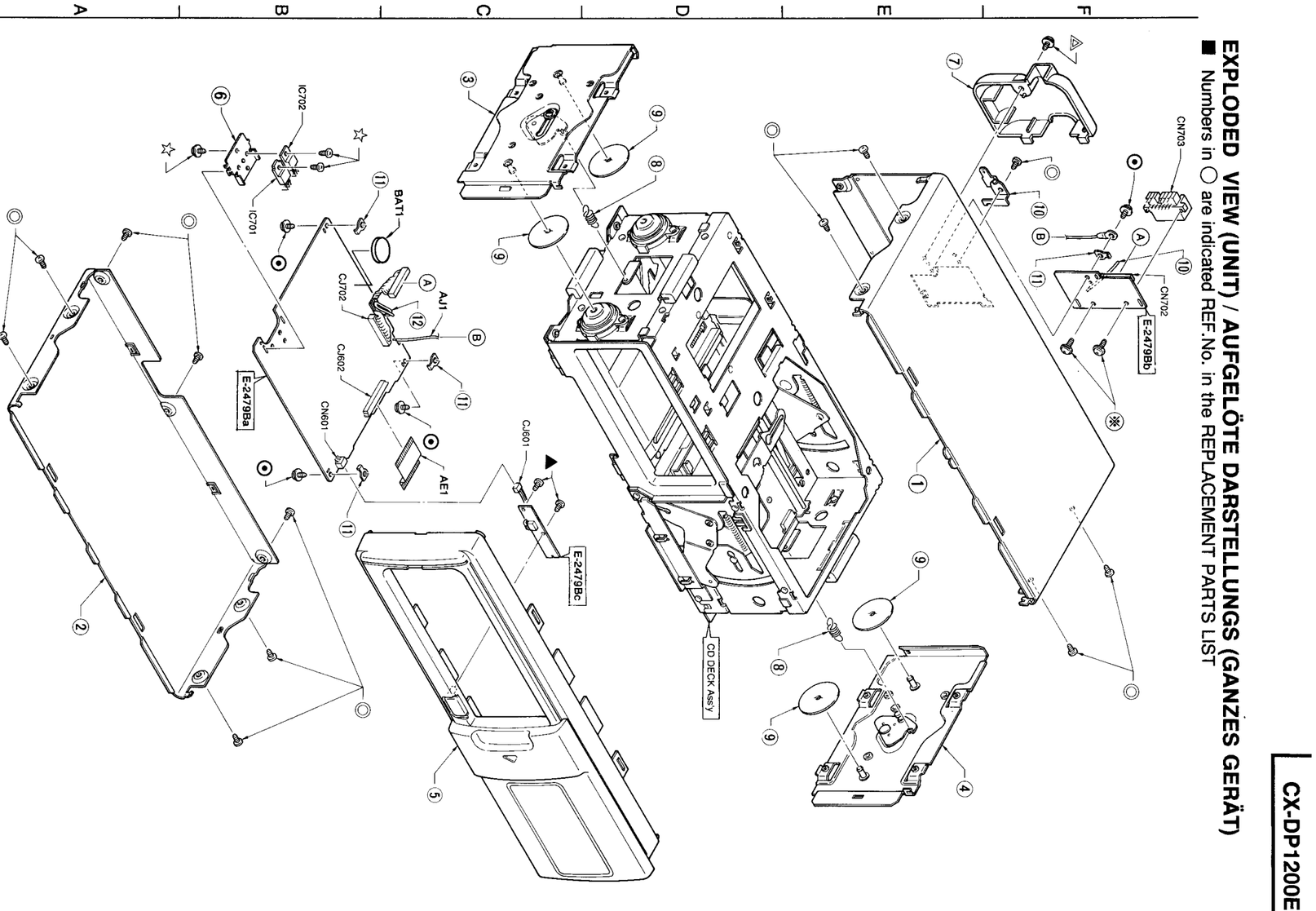
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
15 ☆	XTB3+6FFX		Screw, 3mm×6mm	3	
16 ⊙	YEJT03015		Screw, 3mm×6mm	4	
17 ※	YEJT03049		Screw, 3mm×8mm	2	
18 ◎	XTB3+6FFZ		Screw, 3mm×6mm	12	
19 ▲	XTB2+6GFX		Screw, 2mm×6mm	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CD PLAYER PARTS					FD13031A 94.1.17
ICs AND TRANSISTORs					
SERVO BLOCK					
[E5865C]					
IC101	AN8801SCE1V		IC	1	
IC201	MN66501		IC	1	
IC301	MN66262		IC	1	
IC401	MN187204CYF2		IC	1	
IC501	YEAMBA6399FP		IC	1	
IC601	YEAMBA6295AF		IC	1	
IC701	YEAMXL9346FT		IC	1	
IC901	AN6609NSE1		IC	1	
Q101	2SB766ATX		Transistor	1	
Q601	2SD601TX		Transistor	1	
Q801, 802	2SD874ATX		Transistor	2	
[E2459]					
Q1, 2	PN147		Photo Transistor	2	
DIODEs					
SERVO BLOCK					
[E5865C]					
D401, 402	MA151WKTX		Diode	2	
D403	MA151ATX		Diode	1	
[E5913A]					
D1, 2	LN01201C-2TA		LED	2	
[E2459]					
D1	ON1004		LED	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CAPACITORs					
[E5865C]			**SERVO BLOCK**		
C101	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C102	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	
C103	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C104	ECEV0JA470P		Electrolytic, 47MFD 6.3WV	1	
C105	YECSV0JT226R		Tantalum, 22MFD 6.3WV	1	
C106	YECUS1H822KX		Ceramic, 0.0082MFD 50WV	1	
C107	ECEV1HA010R		Electrolytic, 1MFD 50WV	1	
C108	YECUS1H472KX		Ceramic, 0.0047PF 50WV	1	
C109	YECUS1H181JM		Ceramic, 180PF 50WV	1	
C110	ECEV1VAN2R2R		Electrolytic, 2.2MFD 35WV	1	
C111	YECUV1C104KX		Ceramic, 0.1MFD 16WV	1	
C112	YECUS1E473KX		Ceramic, 0.047MFD 25WV	1	
C113	YECUS1H681JM		Ceramic, 680PF 50WV	1	
C114, 116	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	2	
C118	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C119	YECSV1CT106R		Tantalum, 10MFD 16WV	1	
C121	YECUS1H221JM		Ceramic, 220PF 50WV	1	
C122	YECUS1H273KX		Ceramic, 0.027MFD 50WV	1	
C201	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C202	ECEV0JA470P		Electrolytic, 47MFD 6.3WV	1	
C203	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C204	ECEV0JA470P		Electrolytic, 47MFD 6.3WV	1	
C205	YECUS1H122KX		Ceramic, 0.0012MFD 50WV	1	
C206	YECUS1H153KX		Ceramic, 0.015MFD 50WV	1	
C301	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C302	ECEV0JA470P		Electrolytic, 47MFD 6.3WV	1	
C303	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C304	YECSV1CF106L		Tantalum, 10MFD 16WV	1	
C305	YECUS1H102KX		Ceramic, 0.001MFD 50WV	1	
C307	YECUV1C224KX		Ceramic, 0.22MFD 16WV	1	
C308	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C309	YECUS1C823KX		Ceramic, 0.082MFD 16WV	1	
C310	YECUV1C224KX		Ceramic, 0.22MFD 16WV	1	
C401	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C402	ECEV0JA101P		Electrolytic, 100MFD 6.3WV	1	
C403	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C405, 406	YECUS1H330JM		Ceramic, 33PF 50WV	2	
C503	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C504	ECEV1CA470P		Electrolytic, 47MFD 16WV	1	
C505	YECUS1E223KX		Ceramic, 0.022MFD 25WV	1	
C506	YECUS1H102KX		Ceramic, 0.001MFD 50WV	1	
C507	YECUS1C683KX		Ceramic, 0.068MFD 16WV	1	
C508	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C509	YECUX1C334KX		Ceramic, 0.33MFD 16WV	1	
C510	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C601	ECEV1CA470P		Electrolytic, 47MFD 16WV	1	
C602	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C901	YECUS1E223KX		Ceramic, 0.022MFD 25WV	1	
C902	ECEV1CA100R		Electrolytic, 10MFD 16WV	1	
C903	ECEV1EA4R7R		Electrolytic, 4.7MFD 25WV	1	
RESISTORs					
[E5865C]			**SERVO BLOCK**		
R100	ERJ6GEYJ334		Chip, 330k ohms 0.1W	1	
R101	ERJ6GEYJ101		Chip, 100 ohms 0.1W	1	
R102	ERJ14YJ100H		Chip, 10 ohms 0.25W	1	
R103	ERJ6GEYJ512		Chip, 5.1k ohms 0.1W	1	
R104 to 107	ERJ6GEYJ393		Chip, 39k ohms 0.1W	4	
R108, 109	ERJ6GEYJ104		Chip, 100k ohms 0.1W	2	
R110	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R111	ERJ6GEYJ363		Chip, 36k ohms 0.1W	1	

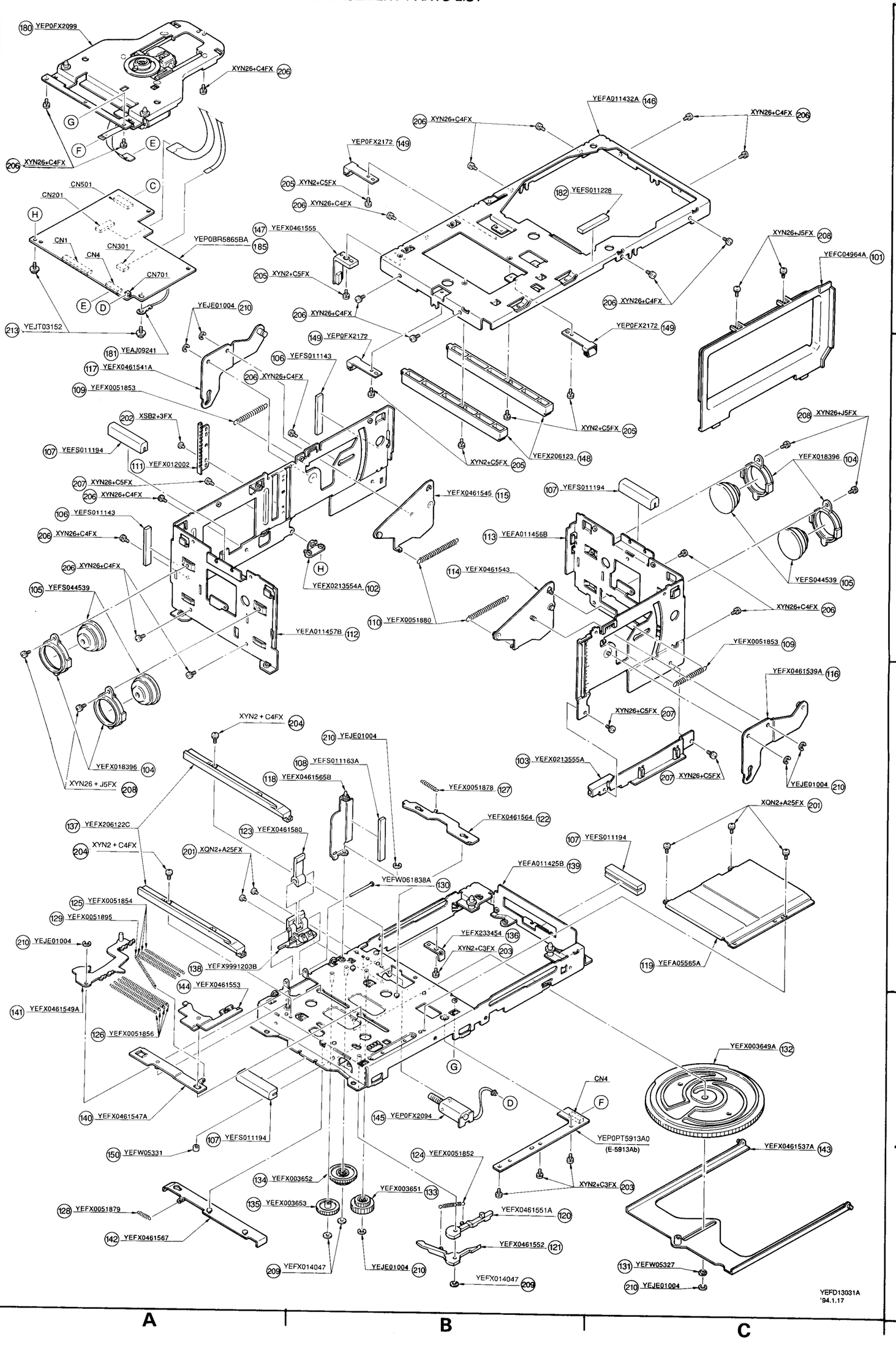
EXPLODED VIEW (UNIT) / AUFGELÖTE DARSTELLUNGS (GANZES GERÄT)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



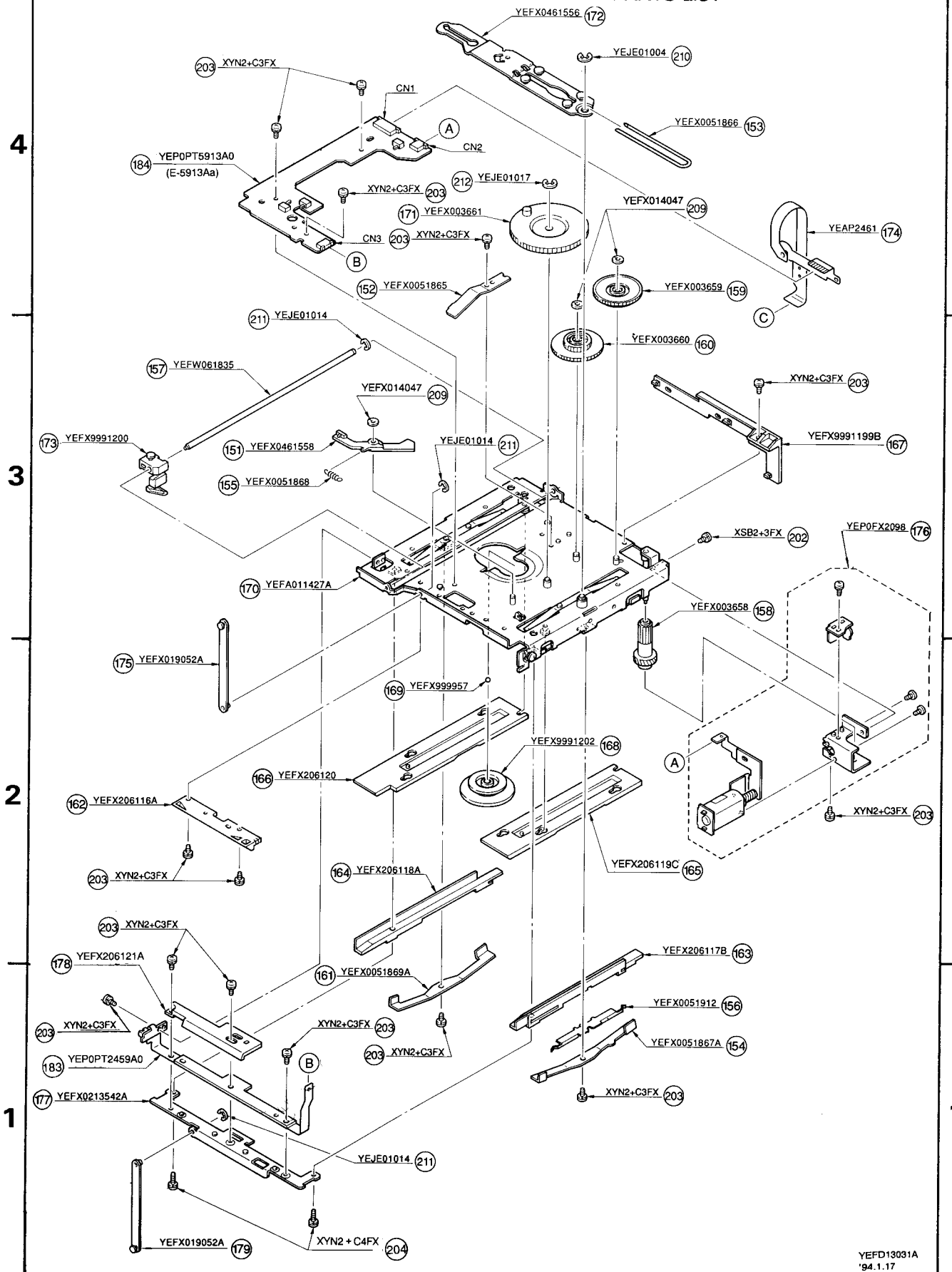
EXPLODED VIEW (CD DECK-1) / AUFGELÖTE DARSTELLUNGS (CD TONBAND GERÄT-1)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



EXPLODED VIEW (CD DECK-2)
/ AUFGELÖTE DARSTELLUNGS (CD TONBAND GERÄT-2)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R113	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R114	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R115	ERJ6GEYJ394		Chip, 390k ohms 0.1W	1	
R116	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R117, 118	ERJ6GEYJ102		Chip, 1k ohms 0.1W	2	
R119	ERJ6GEYJ153		Chip, 15k ohms 0.1W	1	
R120, 121	ERJ6GEYJ223		Chip, 22k ohms 0.1W	2	
R122, 123	ERJ6GEYJ122		Chip, 1.2k ohms 0.1W	2	
R124	ERJ6GEYJ224		Chip, 220k ohms 0.1W	1	
R125	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1	
R302	ERJ6GEYJ471		Chip, 470 ohms 0.1W	1	
R303	ERJ6GEYJ823		Chip, 82k ohms 0.1W	1	
R304, 307	ERJ6GEYJ473		Chip, 47k ohms 0.1W	2	
R309	ERJ6GEYJ471		Chip, 470 ohms 0.1W	1	
R401 to 403	ERJ6GEYJ473		Chip, 47k ohms 0.1W	3	
R406	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R407	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R408 to 413	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	6	
R415	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1	
R417	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R418, 419	ERJ6GEYJ103		Chip, 10k ohms 0.1W	2	
R420, 421	ERJ6GEYJ473		Chip, 47k ohms 0.1W	2	
R422 to 425	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	4	
R426	ERJ6GEYJ563		Chip, 56k ohms 0.1W	1	
R427 to 431	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	5	
R432	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R433	ERJ6GEYJ222		Chip, 2.2k ohms 0.1W	1	
R501	ERJ6GEYJ822		Chip, 8.2k ohms 0.1W	1	
R502	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R503	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R504	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R505	ERJ6GEYJ823		Chip, 82k ohms 0.1W	1	
R506	ERJ6GEYJ124		Chip, 120k ohms 0.1W	1	
R507	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R508	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R509	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R510	ERJ6GEYJ123		Chip, 12k ohms 0.1W	1	
R511	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R512	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R514 to 516	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	3	
R517	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R601	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R602	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R701 to 703	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	3	
R801, 802	ERJ6GEYJ471		Chip, 470 ohms 0.1W	2	
R901	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R902	ERJ6GEYJ222		Chip, 2.2k ohms 0.1W	1	
R903	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R904	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R905 to 908	ERSM39J4R7U		Thermal Sensitive,4.7 ohms 25W	4	
[E5913A]					
R1 to 3	ERJ8GEYJ471V		Chip, 470 ohms 0.13W	3	
			CONNECTORs		
[E5865C]			**SERVO BLOCK**		
CN1	YEAE5220727		Connector, 27P	1	
CN201	YEAE5220712		Connector, 12P	1	
CN301	YEAE5220704		Connector, 4P	1	
CN401	YEAE5220710		Connector, 10P	1	
CN501	YEAE5220712		Connector, 12P	1	
CN701	YEAE5326102		Connector, 2P	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
[E5913A]					
CN3	YEAE5220704		Connector, 4P	1	
CN4	YEAESFW04R1E		Connector, 4P	1	
CNP1	YEAE5220712		Connector, 12P	1	
CNP2	YEAE5220705		Connector, 5P	1	
SWITCHEs					
SW1 to 6	YEAS09248R		Switch	6	
CRYSTAL					
XL401	YEXLCSAC419M		Crystal OSC	1	
VARIABLE RESISTOR					
VR101	YEVN031B103M		Variable Resistor	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
MISCELLANEOUS					
101 (4-C)	YEFC4964A		Guide Panel	1	
102 (3-B)	YEFX0213554A		P. C. B. Holding Bracket (A)	1	
103 (2-C)	YEFX0213555A		Cable Bracket	1	
104 (2-A) (3-C)	YEFX018396		Dumper Holder	4	
105 (2-A) (3-C)	YEFS044539		Dumper	4	
106 (3-A) (3-B)	YEFS11143		Dumper Pad (1)	2	
107	YEFS11194		Dumper Pad (2)	4	
108 (2-B)	YEFS11163A		Thrust Pad	1	
109 (3-A) (2-C)	YEFX00518		Elevator Thrust Spring (A)	2	
110 (3-B)	YEFX00518		Elevator Thrust Spring (B)	2	
111 (3-A)	YEFX012002		Elevator Position Plate	1	
112 (3-A)	YEFA011457B		Rear Chassis Ass'y	1	
113 (3-C)	YEFA011456B		Front Chassis Ass'y	1	
114 (3-B)	YEFX0461543		Elevator Lever (B1) Ass'y	1	
115 (3-B)	YEFX0461545		Elevator Lever (B2) Ass'y	1	
116 (2-C)	YEFX0461539A		Elevator Lever (A1) Ass'y	1	
117 (3-A)	YEFX0461541A		Elevator Lever (A2) Ass'y	1	
118 (2-B)	YEFX0461565B		Thrust Arm (B)	1	
119 (2-C)	YEFA05565A		Lever Cover	1	
120 (1-B)	YEFX0461551A		Eject Switch Lever	1	
121 (1-B)	YEFX0461552		Switch Lever	1	
122 (2-B)	YEFX0461564		Thrust Arm (A)	1	
123 (2-B)	YEFX0461580		Magazine Lock Lever	1	
124 (1-B)	YEFX0051852		Switch Lever Spring	1	
125 (2-A)	YEFX0051854		Eject Lever Spring (A)	1	
126 (1-A)	YEFX0051856		Eject Lever Spring (B)	1	
127 (2-B)	YEFX0051878		Thrust Arm Spring	1	
128 (1-A)	YEFX0051879		MG Switch Lever Spring	1	
129 (2-A)	YEFX0051895		Eject Lever Spring (C)	1	
130 (2-B)	YEFW061838A		Magazine Lock Shaft	1	
131 (1-C)	YEFW05327		Elevator Gear Ring	1	
132 (1-C)	YEFX003649A		Elevator Gear Ass'y	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
133 (1-B)	YEFX003651		Elevator Gear (A)	1	
134 (1-B)	YEFX003652		Elevator Gear (B)	1	
135 (1-B)	YEFX003653		Elevator Gear (C)	1	
136 (2-B)	YEFX233454		Elevator Worm Holding Plate	1	
137 (2-A)	YEFX206122C		Magazine Guide	2	
138 (2-B)	YEFX9991203B		Magazine Lock	1	
139 (2-B)	YEFA011425B		Main Chassis Ass'y	1	
140 (1-A)	YEFX0461547A		Eject Lever (A) Ass'y	1	
141 (1-A)	YEFX0461549A		Eject Lever (B) Ass'y	1	
142 (1-A)	YEFX0461567		MG Switch Lever Ass'y	1	
143 (1-C)	YEFX0461537A		Slide Lever Ass'y	1	
144 (1-A)	YEFX0461553		Eject Lever (C) Ass'y	1	
145 (1-B)	YEP0FX2094 .		Elevator Motor Ass'y	1	
146 (4-B)	YEFA011432A		Upper Chassis	1	
147 (4-B)	YEFX0461555		Tray Eject Lever	1	
148 (3-B)	YEFX206123		Magazine Guide (U)	2	
149 (3-B) (4-B)	YEP0FX2172		Magazine Roller Ass'y	3	
150 (1-A)	YEFW05331		Eject Lever Ring	1	
151 (3-E)	YEFX0461558		Limit Switch Arm	1	
152 (4-E)	YEFX0051865		Clamp Spring	1	
153 (4-F)	YEFX0051866		Swing Arm Spring	1	
154 (1-E)	YEFX0051867A		Elevator Thrust Spring (BF)	1	
155 (3-E)	YEFX0051868		Limit Switch	1	
156 (1-E)	YEFX0051912		Tray Hold Spring	1	
157 (3-D)	YEFW061835		Loading Guide	1	
158 (3-F)	YEFX003658		Slide Gear (1)	1	
159 (4-E)	YEFX003659		Slide Gear (2)	1	
160 (3-E)	YEFX003660		Slide Gear (3)	1	
161 (1-E)	YEFX0051869A		Elevator Thrust Spring (BR)	1	
162 (2-D)	YEFX206116A		Save Guide (U)	1	
163 (1-E)	YEFX206117B		Guide Rail (FL)	1	
164 (2-E)	YEFX206118A		Guide Rail (RL)	1	
165 (2-E)	YEFX206119C		Guide Rail (FU)	1	
166 (2-E)	YEFX206120		Guide Rail (RU)	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
167 (3-F)	YEFX9991199B		FPC Holder	1	
168 (2-E)	YEFX9991202		Clamper	1	
169 (2-E)	YEFX999957		Steel Ball	1	
170 (3-E)	YEFA011427A		Elevator Chassis Ass'y	1	
171 (4-E)	YEFX003661		Slide Gear (4) Ass'y	1	
172 (4-E)	YEFX0461556		Swing Arm Ass'y	1	
173 (3-D)	YEFX9991200		Slide Fuck Ass'y	1	
174 (4-F)	YEAP2461		Connector FPC	1	
175 (2-D)	YEFX019052A		Stop Arm Ass'y	1	
176 (2-F)	YEP0FX2098		Loading Motor Ass'y	1	
177 (1-D)	YEFX0213542A		Stop Guide	1	
178 (1-D)	YEFX206121A		Stop Guide (L)	1	
179 (1-D)	YEFX019052A		Stop Arm Ass'y	1	
180 (4-A)	YEP0FX2099		Suspension Ass'y	1	
181 (4-A)	YEAJ09241		Earth Wire	1	
182 (4-B)	YEFS011228		Earth Pad (3)	1	
183 (1-D)	YEP0PT2459A0		Position Sensor FPC Ass'y	1	RTL
184 (4-D)	YEP0PT5913A0		Switch Plate Ass'y	1	RTL
185 (4-A)	YEP0BR5865BA		PCB w/Component	1	RTL
201 (2-A) (2-C)	XQN2 + A25FX		Screw, 2mm × 25mm	5	
202 (3-A) (3-F)	XSB2 + 3FX		Screw, 2mm × 3mm	2	
203	XYN2 + C3FX		Screw, 2mm × 3mm	18	
204 (2-A)	XYN2 + C4FX		Screw, 2mm × 4mm	4	
205	XYN2 + C5FX		Screw, 2mm × 5mm	6	
206	XYN26 + C4FX		Screw, 2.6mm × 4mm	19	
207 (3-A) (2-C)	XYN26 + C5FX		Screw, 2.6mm × 5mm	3	
208	XYN26 + J5FX		Screw, 2.6mm × 5mm	6	
209	YEFX014047		Snap Ring	6	
210	YEFX01004		E-Ring	9	
211 (1-D) (3-E)	YEFX01014		E-Ring	3	
212 (4-E)	YEJE01017		E-Ring	1	
213 (3-A) (4-A)	YEJT03152		Screw w/Washer	2	

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